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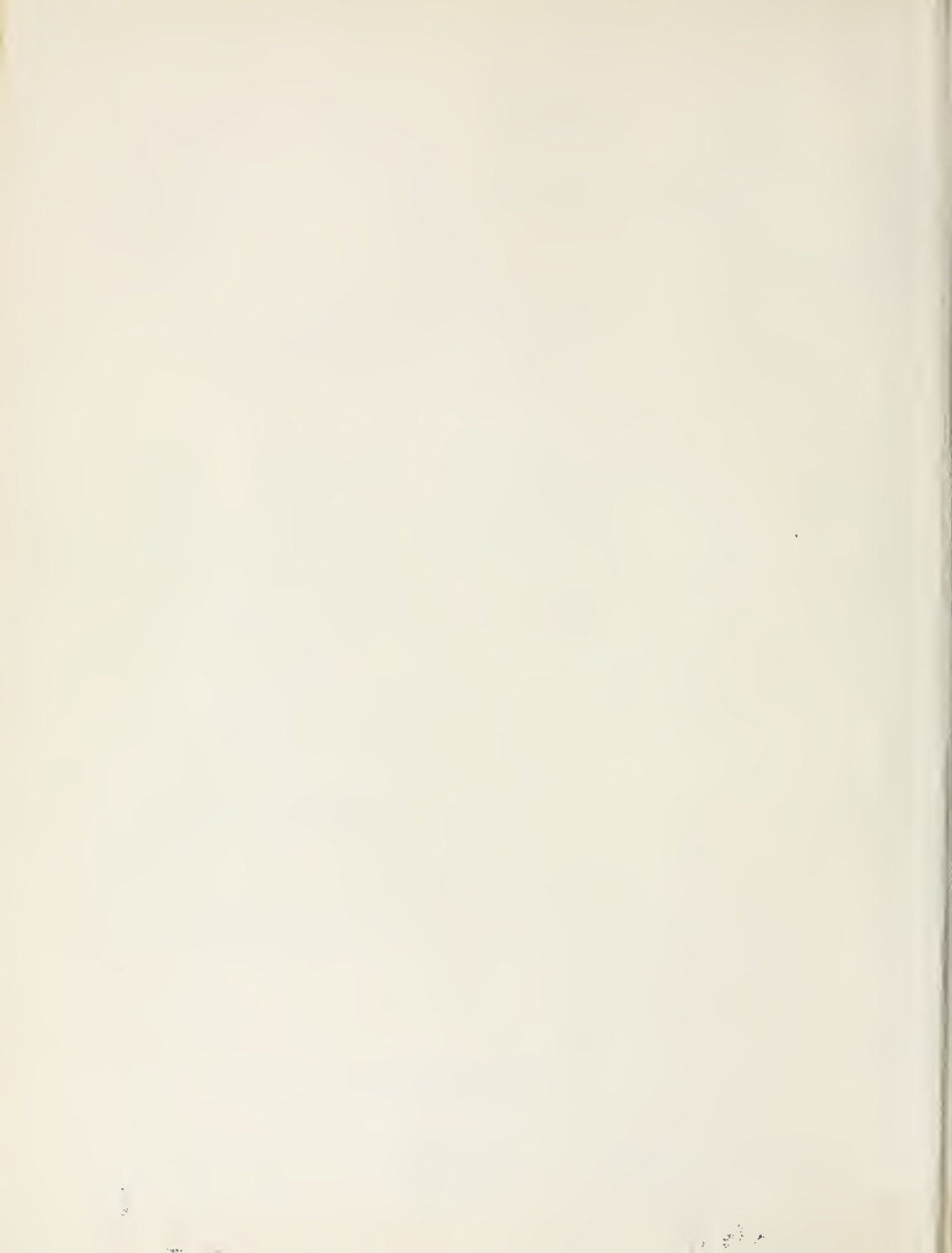
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Department of Water Resources



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AREAL COVERAGE OF VOLUMES

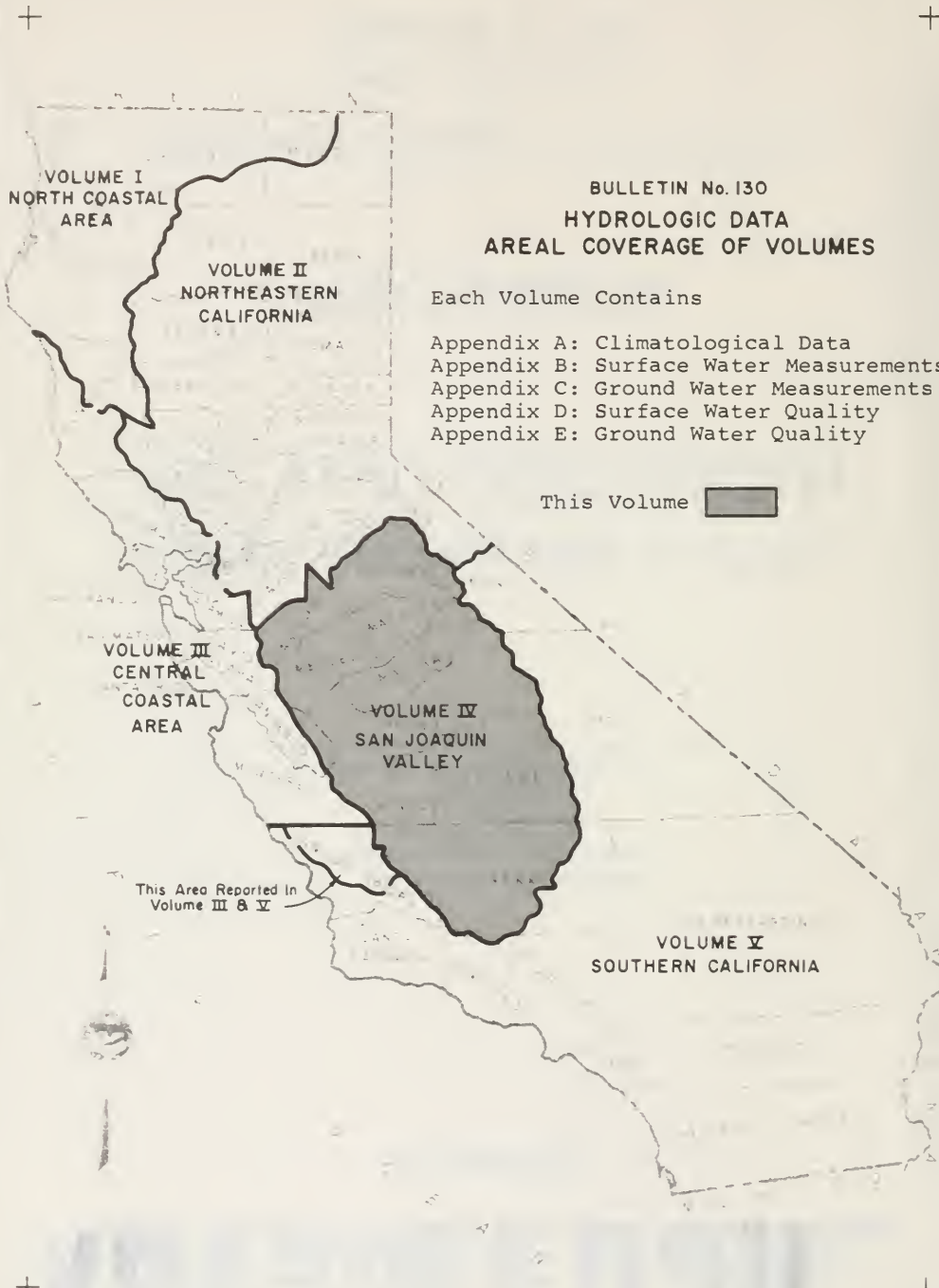
Each Volume Contains

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality
- Appendix E: Ground Water Quality

This Volume



This Area Reported In
Volume III & V



FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-69 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
State of California
September 16, 1970

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
Inch (in)	2.54 Centimeters
Foot (ft)	0.3048 Meter
Mile (mi)	1.609 Kilometers
Acre	0.405 Hectare
Square mile (sq. mi.)	2.590 Square kilometer
U. S. gallon (gal)	3.785 Liters
Acre-foot (acre-ft)	1,233.5 Cubic meters
U. S. gallon per minute (gpm)	0.0631 Liters per second
Cubic feet per second (cfs)	1.699 Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)
1 part per billion (ppb)	Microgram per liter (ug/l)
1 part per trillion (ppt)	Nanogram per liter (ng/l)
1 equivalent per million (epm)	Milliequivalent per liter (me/l)
Degrees Fahrenheit (°F)	Degrees Centigrade = $(^{\circ}\text{F}-32^{\circ})5/9$

AREAL COVERAGE OF VOLUMES	ii
FOREWORD	iii
METRIC CONVERSION TABLE	iv
ORGANIZATION, DEPARTMENT OF WATER RESOURCES	vii
ACKNOWLEDGMENTS	ix
ABSTRACT	x
APPENDIXES	
Appendix A: CLIMATOLOGICAL DATA	1
Introduction	3

FIGURES

<u>Figure Number</u>		
A-1	Climatological Observation Stations	4

TABLES

<u>Table Number</u>		
A-1	Index of Climatological Stations	11
A-2	Precipitation Data	18
A-3	Storage Gage Precipitation Data	23
A-4	Temperature Data	25
A-5	Evaporation Data	30
A-6	Climatological Station Changes and Relocations	32
Appendix B: SURFACE WATER MEASUREMENT	33	
Introduction	35	
Alphabetical Index to Tables	36	
Hydrographic Area and Stream Basin Index to Surface Water Measurement Stations	37	

FIGURES

<u>Figure Number</u>		
B-1	Location of Surface Water Measurement Stations	38

TABLES

<u>Table Number</u>		
B-1	Annual Unimpaired Runoff	44
B-2	Monthly Unimpaired Runoff	46
B-3	Gaging Station Additions and Discontinuations	47
B-4	Daily Mean Discharge	48
B-5	Tulare Lake Inflow	106
B-6	Streamflow Measurements at Miscellaneous Locations	109
B-7	Diversions	111
B-8	Diversions and Acreage Irrigated--Eastside Canals and Irrigation Districts	121
B-9	Deliveries from Central Valley Project Canals	122
B-10	Deliveries from California Aqueduct	124
B-11	Imports and Exports	125
B-12	Daily Mean Gage Height	126
B-13	Corrections and Revisions to Previously Published Reports	145

	<u>Page</u>
Appendix C: GROUND WATER MEASUREMENT	149
Introduction	151
FIGURES	
<u>Figure Number</u>	
C-1 Fluctuation of Average Water Level in Selected Areas	152
C-2 Fluctuation of Water Levels in Selected Wells	158
TABLES	
<u>Table Number</u>	
C-1 Change in Average Ground Water Level in Districts or Areas in the San Joaquin Valley . . .	174
C-2 Change in Average Ground Water Level from 1921 to 1951 and 1951 to 1969 in 18 Ground Water Areas in the San Joaquin Valley	177
C-3 Ground Water Levels at Wells	178
Appendix D: SURFACE WATER QUALITY	199
Introduction	201
FIGURES	
<u>Figure Number</u>	
D-1 Location of Surface Water Quality Sampling Stations	203
D-2 Daily Mean Specific Conductance at Selected Stations, San Joaquin Valley	204
TABLES	
<u>Table Number</u>	
D-1 Sampling Station Data and Index for Surface Water	202
D-2 Mineral Analyses of Surface Water	207
D-3 Trace Mineral Analyses of Surface Water	218
D-4 Miscellaneous Constituents of Surface Water	226
Appendix E: GROUND WATER QUALITY	229
Introduction	231
TABLES	
<u>Table Number</u>	
E-1 Mineral Analyses of Ground Water	232
E-2 Trace Mineral Analyses of Ground Water	248
PLATES (Bound at end of volume)	
<u>Plate Number</u>	
1 Ground Water Level Changes, Unconfined and Semiconfined Aquifers, and Selected Observation Wells	
2 Ground Water Level Changes, Confined and Semiconfined Aquifers, and Cooperative Program Areas	
3 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951, & 1969	
4 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1969	

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

by the

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U. S. Bureau of Reclamation
U. S. Army Corps of Engineers
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Kern County Land Company
Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1968-69 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1969; profile of ground water levels; cooperative study areas; ground water level changes; and well locations.

APPENDIX A
CLIMATOLOGICAL DATA



INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the San Joaquin Valley from July 1, 1968 to September 30, 1969. Storage gage precipitation data are annual values. Thirty-two cooperating agencies and 93 local observers supplied the data for the 340 stations reported. Detailed daily and hourly data for some stations, not published here, are available in the files of the Department of Water Resources.

To insure accuracy, stations are inspected annually or semiannually to see that the equipment is properly maintained and that observations generally are taken in accordance with U. S. Weather Bureau standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

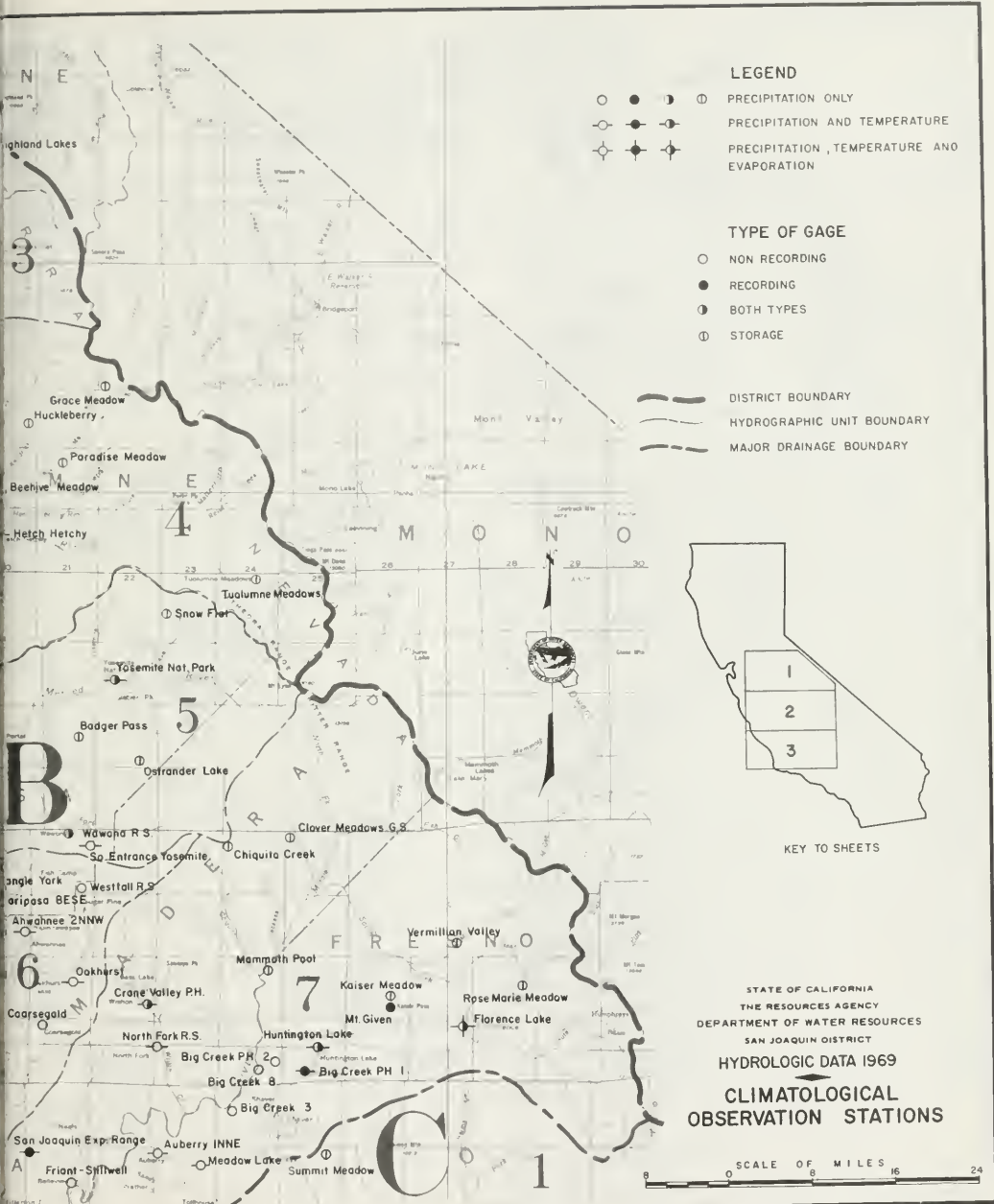
SAN JOAQUIN RIVER BASIN

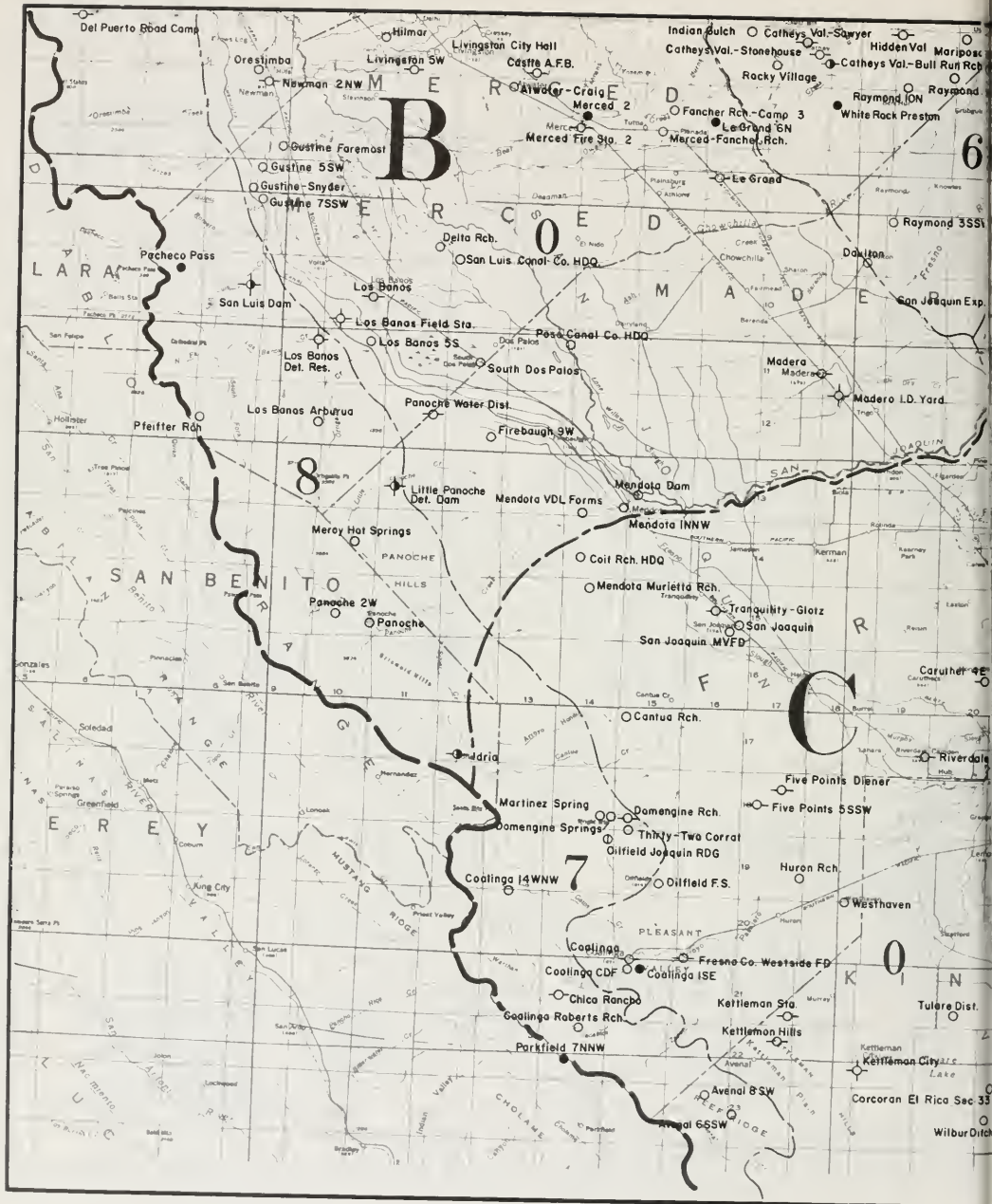
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

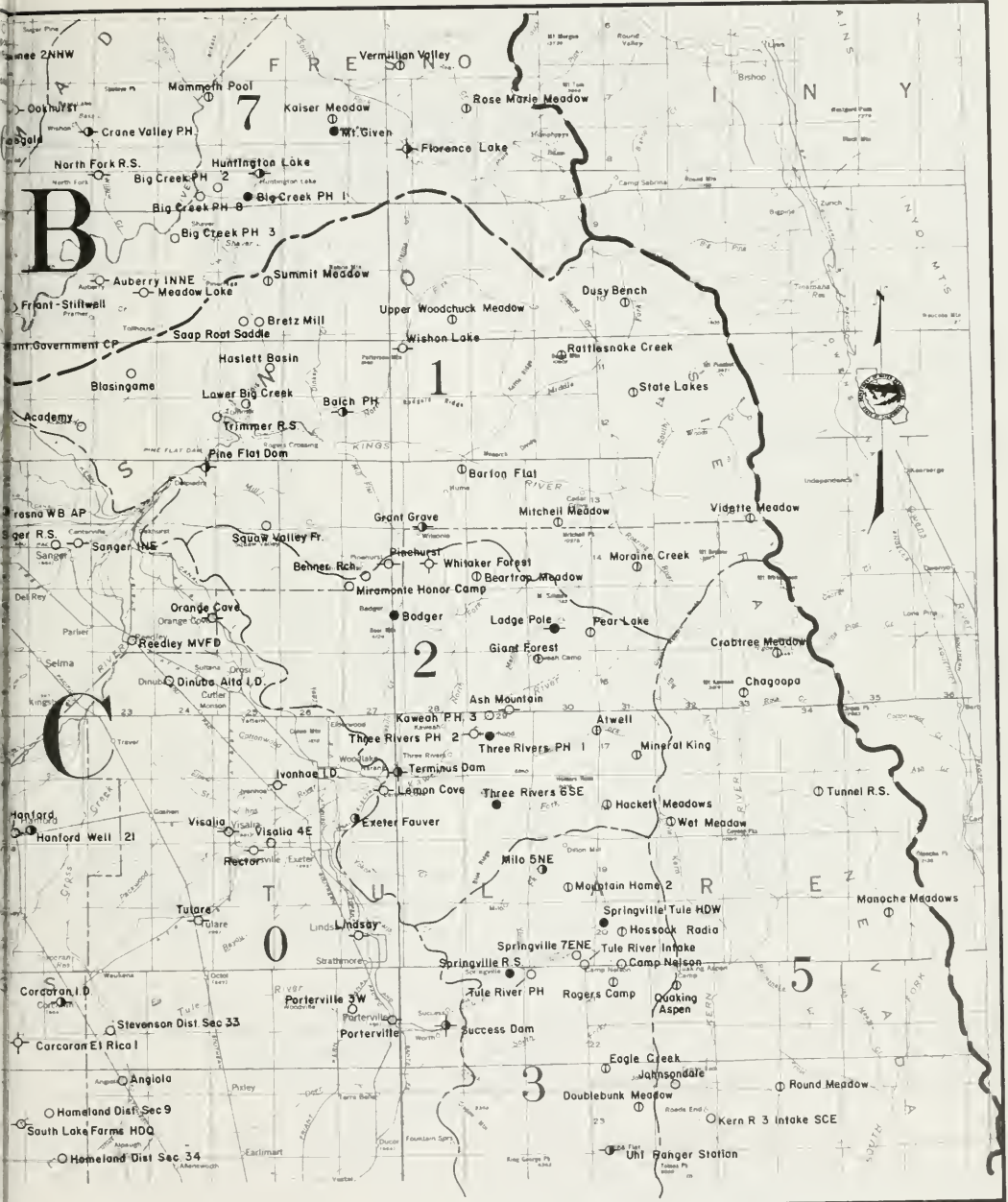
HYDROGRAPHIC AREA C

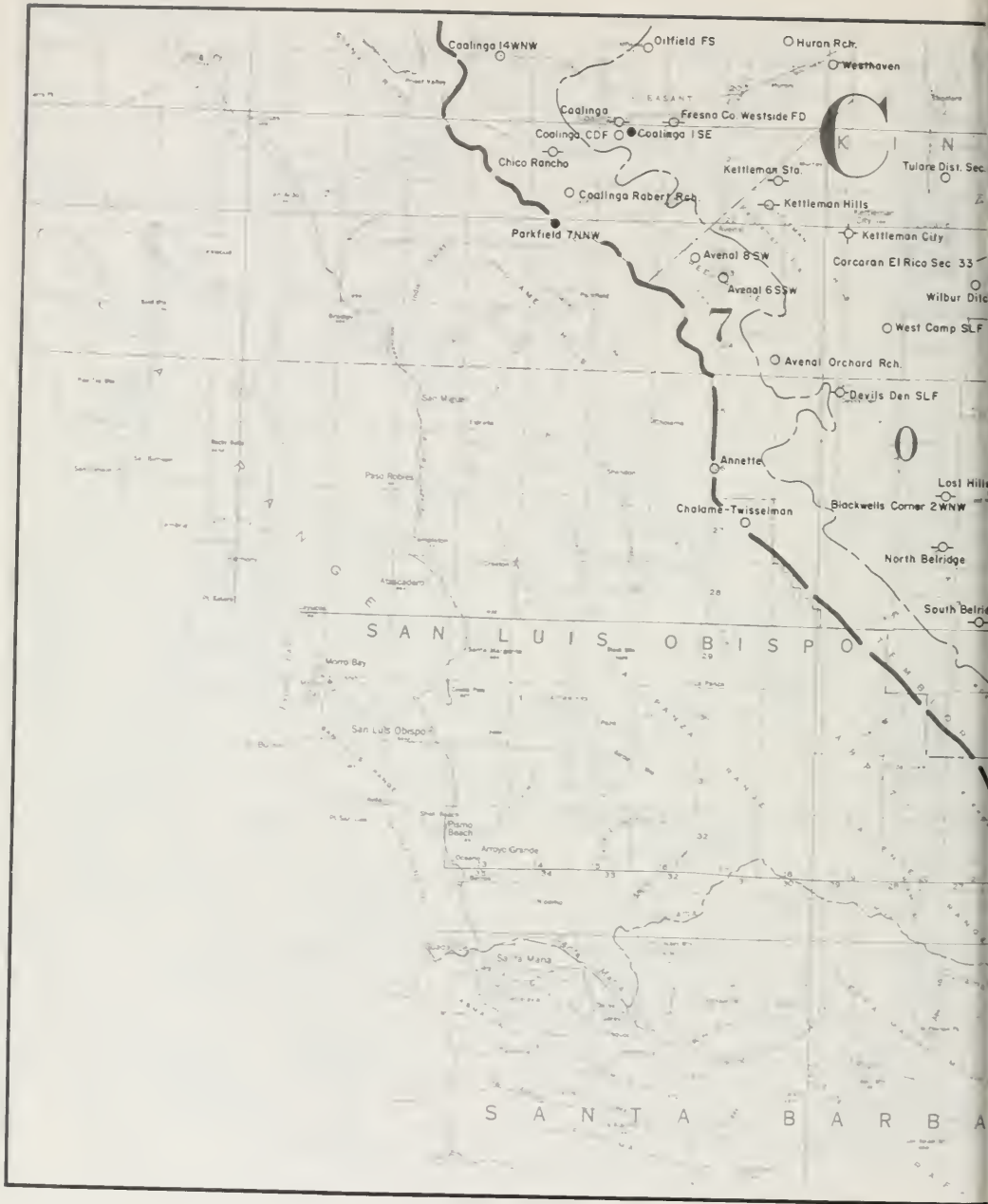
TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side









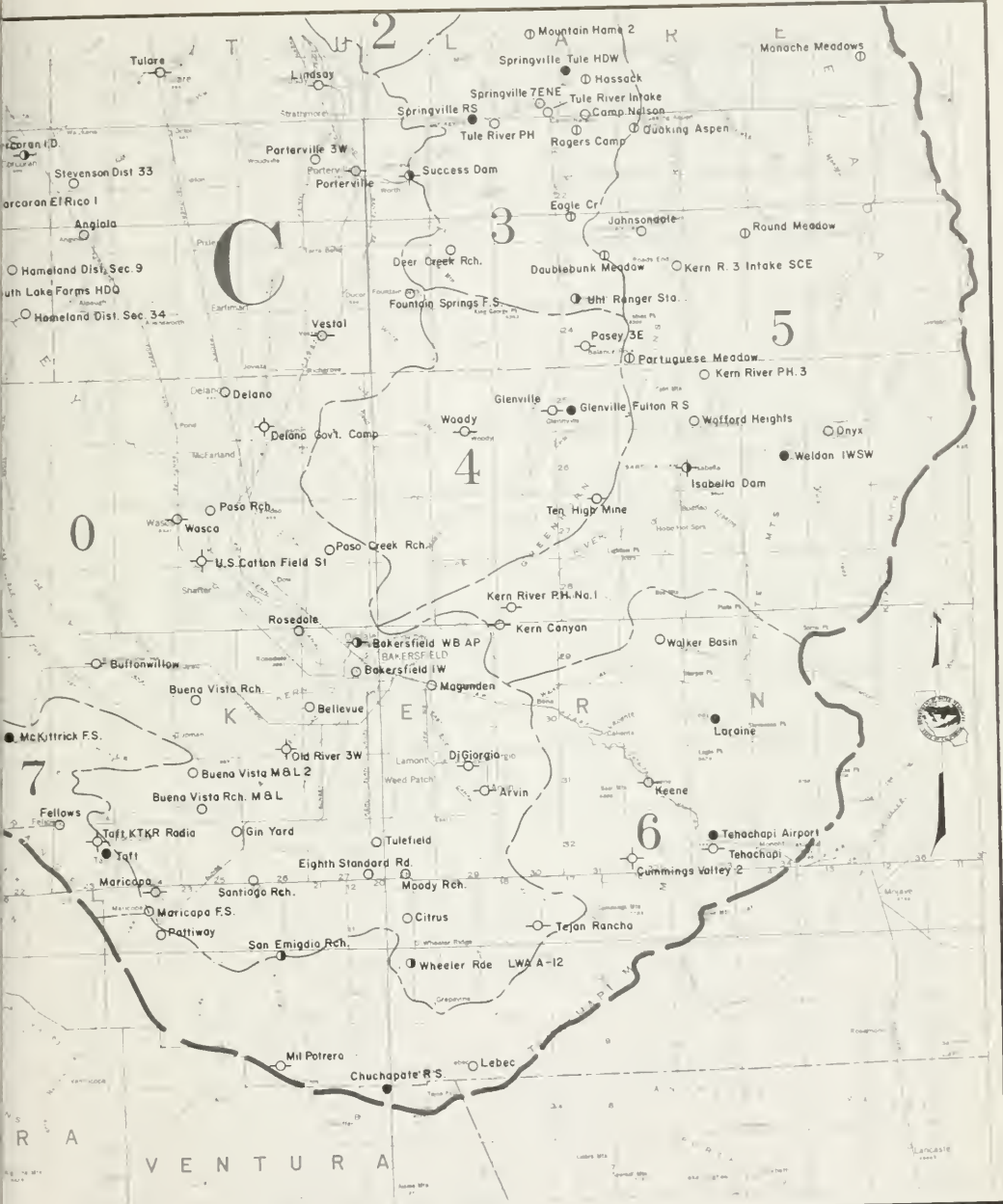




TABLE A-1
INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

- M - Mount Diablo Base and Meridian
- S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
 - 001 Kern County Land Company
 - 002 Boswell Company
 - 003 P. G. and E. Company
 - 004 Southern California Edison Company
 - 005 California Electric Power Company
 - 010 Amateur Radio Weather Network KTRB
 - 011 Southern Pacific Company
 - 012 Miller and Lux, Inc.
 - 013 Central California Irrigation District
- 400 - 799 Counties and municipalities
 - 401 Hetch Hetchy Water Supply
 - 404 Oakdale Irrigation District
 - 405 City of Los Angeles, Department of Water & Power
 - 420 Stanislaus County
- 800 - 899 State
 - 801 Pomology Department, University of California, Davis
 - 804 Division of Beaches and Parks
 - 805 State Department of Fish and Game
 - 806 Department of Water Resources
 - 808 Division of Forestry
 - 809 Division of Highways

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	U. S. Weather Bureau
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	U. S. Weather Bureau (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the U. S. Weather Bureau stations are the same as those used by the Weather Bureau. The U. S. Weather Bureau station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator's Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name													
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P M	36 52 58	119 32 25	000		1917			17
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E	M	37 23 22	119 44 00	907		1959			20
C0 0204	ANGIOLA	150	SEC 27	T22S	R22E	D	35 59 25	119 28 42	900		1899			54
E3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E	38 04 20	120 12 18	003		1908			15
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	35 38 48	120 10 12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	35 12 00	118 49 00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	36 29 30	118 49 35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	37 21 25	119 00 00	900		1951			54
C2 0374	ATWELL	6400	SEC 11	T15S	R20E	M	36 59 00	119 40 00	900		1948			54
B7 0379	AUBERRY 1 NNE	2010	SEC 06	T10S	R23E	H	37 05 30	119 29 50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	35 48 23	120 05 18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	35 57 33	120 13 25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	35 55 30	120 10 05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R22E	P	36 37 53	119 00 46	900		1940			54
B5 0425	BADGER PASS	7300	SEC 22	T03S	R21E	M	37 40 00	119 40 00	900		1941			12
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	35 22 41	119 02 17	900		1913			15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	35 25 38	119 02 34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	36 54 33	119 05 15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	36 49 49	118 53 00	900		1951			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R16E	E	38 27 45	120 02 30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	37 34 12	120 07 903			1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	38 12 12	120 04 30	404		1959			55
C2 0596	BEATRAP MEADOW	6800	SEC 29	T14S	R29E	M	36 41 00	118 52 00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	38 00 00	119 47 00	900		1947			55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	35 20 11	119 05 27	001		1961			15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	36 41 05	119 01 50	000		1967			10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	37 12 15	119 14 20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	37 11 59	119 18 19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	37 08 54	119 23 00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	37 12 00	119 20 00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	35 37 17	119 53 40	900		1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	36 57 37	119 26 45	808		1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	37 02 18	119 14 24	905		1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	35 21 00	119 19 00	001		1944			15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	35 11 42	119 11 43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	35 14 25	119 18 23	002		1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	35 24 00	119 28 00	900		1940			15
B3 1280	CALLAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	38 11 50	120 21 55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	36 08 17	118 37 36	000		1959			54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	36 28 35	120 23 20	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	36 32 48	119 45 30	000		1960			10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	37 22 03	120 34 20	902		1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 24	T06S	R17E	H	37 23 56	120 03 08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	37 28 33	120 06 33	000		1957			22
B6 1590	CATHEYS VALLEY SAWYER	1275	SEC 10	T06S	R17E	C	37 25 53	120 05 40	000		1957	1969		22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	37 24 30	120 05 00	000		1951			22
C5 1647	CHAGOOPA	10390	SEC 11	T16S	R33E	M	36 30 118	27 901			1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	37 58 00	119 55 00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	36 05 13	120 29 22	000		1969			10
B7 1737	CHIUQUITO CREEK	7290	SEC 07	T05S	R24E	N	37 30 20	119 23 21	000		1961			20
C7 1743-02	CHOLAME TWISSELAAN	1675	SEC 15	T27S	R17E	R	35 35 00	120 07 00	000		1951			40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	34 48 00	119 01 00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	S	35 02 18	118 58 28	001		1963			15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	37 32 11	119 17 900			1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	36 09 00	120 21 00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	36 02 18	120 26 40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	36 07 39	120 20 38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	36 14 00	120 34 00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	36 08 03	120 22 00	808		1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E	M	37 16 00	119 42 00	907		1952			20
C0 1885	COIT RANCH HDO	278	SEC 20	T14S	R14E	D	36 42 20	120 28 25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	K	38 02 22	120 24 37	000		1969			55
B3 2003	COPPERPOLIS	1000	SEC 34	T02N	R12E	K	37 59 00	120 38 00	903		1954			05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	36 05 53	119 34 51	900		1912			16
C0 2013	CORCORAN EL RICO 1	205	SEC 23	T21S	R22E	H	36 05 22	119 33 20	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	35 57 49	119 42 14	002		1951			16
B5 2072	COUTLERTVILLE FFS	1870	SEC 33	T02S	R16E	A	37 43 25	120 12 12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	36 34 00	118 21 00	900		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	37 17 26	119 31 35	003		1903			3
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	35 07 118	35 806			1961			15

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude		Longitude		Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	O	I						
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37 07 18	119 59 00	00	000				1946	20
C3 2335-10	DENAR CREEK RCH	950	SEC 05	T23S	R29E	R	M	35 57 15	118 51 28	00	000				1968	54
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35 46 23	119 14 37	00	900				1876	15
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35 48 35	119 11 00	00	904				1952	15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37 25 24	121 22 42	00	900				1958	50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	M	37 07 00	120 44 00	01	013				1949	01 24
B0 2389	DENAR 3 ANNE	137	SEC 20	T04S	R12E	A	M	37 34 12	120 47 00	00	900				1964	50
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37 29 18	120 40 47	00	000				1965	24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35 45 55	119 58 22	00	000				1959	15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35 15 08	118 51 00	00	000				1937	15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36 32 32	119 23 30	00	000				1944	54
C7 2464	DOMENIGINE RCH	1000	SEC 29	T18S	R15E	A	M	37 34 20	120 21 30	00	000				1959	10
C7 2464-01	DOMENIGINE SPRING	1700	SEC 25	T18S	R14E	B	M	36 19 53	120 24 04	00	000				1988	10
B4 2473	DOON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37 43 00	120 24 18	00	904				1940	55
C3 2492	DOBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	B	M	35 57 00	118 36 00	00	900				1955	54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37 45 14	120 06 30	00	900				1909	22
C1 2577	DUSY BENCH	9470		T10S	R31E	M	M	37 06 18	118 35 01						1964	10
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	M	35 59 118	99 903						1954	55
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37 52 30	119 57 25	40	1				1925	55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	R	M	35 06 05	119 01 45	00	1				1963	15
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37 37 24	121 14 09	00	000				1953	50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37 47 20	121 58 15	00	000				1944	39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37 35 06	120 16 11	00	900				1935	22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36 21 28	119 04 45	00	900				1938	54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37 19 04	120 20 04	00	000				1959	24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35 10 44	119 32 39	00	000				1956	15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36 51 04	120 37 03	00	000				1934	10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36 21 48	120 09 22	00	900				1942	10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36 12 20	120 06 12	00	000				1933	10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37 16 27	118 58 27	00	900				1940	10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35 53 31	118 55 58	00	808				1965	54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36 46 10	119 43 02	00	900				1899	10
C0 3258-80	FRESNO CO WESTWIDE FD	600	SEC 31	T20S	R16E	Q	M	36 08 27	120 16 22	00	806				1930	10
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36 44 00	119 43 00	00	900				1896	10
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37 03 07	119 38 48	00	000				1965	20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36 34 05	118 46 01	00	900				1921	54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35 09 12	119 14 10	00	002				1960	15
C4 3463	GLENVILLE	3140	SEC 25	T25S	R30E	F	M	35 43 28	118 42 07	00	900				1951	15
C4 3465	GLENVILLE FULTON RS	3500	SEC 29	T25S	R31E	H	M	35 44 00	118 40 00	00	900				1940	15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	M	M	38 09 00	119 36 00	00	900				1947	55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36 44 29	118 57 40	00	900				1924	54
B5 3586-05	GRELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37 45 55	120 07 40	00	000				1965	22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37 50 00	120 14 00	00	900				1940	55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37 49 00	120 06 00	00	900				1940	55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37 13 26	121 02 37	00	000				1927	24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37 12 00	121 03 00	00	000				1930	24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37 15 28	120 59 53	00	000				1928	24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37 10 25	121 01 54	00	000				1958	24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	F	M	36 19 43	119 39 55	00	900				1899	16
C0 3749	HANFORD WELL #21	240	SEC 26	T18S	R21E	Q	M	36 20 19	119 40 00	00	000				1964	16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36 58 18	119 12 54	00	900				1960	10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37 56 42	119 46 54	00	900				1910	55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37 26 00	119 56 24	00	000				1949	22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38 29 48	119 47 48	00	900				1960	02
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37 24 10	120 50 59	00	000				1948	24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36 22 00	118 39 00	00	900				1959	54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	M	37 48 11	119 52 07	00	907				1967	55
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35 56 53	119 35 30	00	002				1952	16
C0 4061-03	HOMELAND DIST SEC 34	196	SEC 34	T23S	R22E	R	M	35 53 43	119 34 24	00	002				1951	16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37 29 40	120 08 55	00	000				1955	22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37 28 10	120 14 00	00	000				1939	22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37 30 10	120 14 08	00	001				1960	22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E	L	M	36 11 01	118 37 00	00	900				1959	54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	M	38 06 00	119 45 00	00	900				1948	55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38 12 00	120 21 36	00	900				1950	05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37 13 45	119 13 10	00	900				1915	10
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36 15 41	120 06 05	00	000				1951	10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36 24 58	120 40 17	00	900				1918	35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37 26 18	120 11 46	00	000				1952	22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	F	M	35 38 46	118 28 45	00	903				1949	15

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Block & Meridian	Latitude		Longitude		Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						'	"	'	"						
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R M	36	24	15	119	12	21	000		1954	54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	37	32	36	119	50		905		1958	22
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K M	35	58	13	118	32	27	900		1954	54
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M	37	18	00	119	06	00	900		1946	10
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q M	36	29	12	118	50	06	004		1913	54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C M	35	13	28	118	33	55	000		1948	15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B M	35	26	27	118	47	45	003		1916	15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F M	35	56	43	118	28	33	004		1921	54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N M	35	27	37	118	46	48	900		1904	15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A M	35	46	35	118	26	08	900		1946	15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C M	35	59	45	119	57	55	900		1930	03 16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F M	36	01	50	120	06	15	000		1931	16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L M	36	04	28	120	05	08	900		1933	16
B0 4590	KNIGHTS FERRY 2 ESE	315	SEC 27	T01S	R12E	M	37	47	54	120	38	42	900		1905	50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A M	38	28	42	120	00	48	900		1948	02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F M	37	58	00	119	53	00	900		1909	55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P S	34	49	58	118	51	51	900		1940	15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N M	37	13	50	120	14	50	900		1899	24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H M	37	18	39	120	15	05	000		1946	24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N M	36	23	00	119	01	31	900		1899	54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F M	36	11	24	119	04	20	900		1913	54
B8 4979	LITTLE PANOCHE DET DAM	677	SEC 20	T13S	R11E	M	36	47		120	48		900		1968	10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E M	37	23	10	120	43	15	000		1948	07 24
B0 4999-03	LIVINGSTON S W	112	SEC 32	T06S	R11E	D M	37	22	29	120	47	40	000		1952	24
C2 5026	LIDGEPOLE	6735	SEC 21	T15S	R30E	M	36	36		118	14		900		1968	54
C6 5098	LORAIN	2720	SEC 21	T30S	R33E	K M	35	18	05	118	25	54	900		1941	15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P M	36	59	02	120	50	45	013		1948	24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q M	37	00	54	120	53	55	904		1956	24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L M	37	03	00	120	51	00	900		1873	24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C M	36	52	52	120	56	25	900		1932	24
B8 5120	LOS BANOS CR DET RES	407	SEC 12	T11S	R09E	M	37	01		120	56		900		1968	24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N M	35	37	00	119	41	17	900		1912	15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J M	36	54	48	119	14	42	905		1960	10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E	M	38	01	00	119	53	00	900		1948	55
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N M	36	55	15	120	01	12	904		1952	20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P M	36	58		120	03		900		1950	20
C0 5257	MARDEN	448	SEC 36	T29S	R28E	G M	36	21	42	118	55	18	004		1927	15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D M	37	20	31	119	49	45	905		1947	20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H M	37	47		121	12		900		1964	39
C0 5338	MARICOPA	680	SEC 31	T12N	R23W	N S	35	04	48	119	22	58	900		1911	15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E S	35	04		119	24		000		1959	15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B M	37	29	10	119	58	00	900		1909	22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B M	37	29	20	119	57	55	000		1958	22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E M	37	26	30	119	49	37	000		1952	22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F M	37	30	04	119	59	05	808		1943	22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B M	36	20	24	120	24	54	000		1959	10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G M	37	53	25	119	51	10	900		1930	21
B5 5460	MCDERMID STA	2990	SEC 33	T02S	R17E	H M	37	43	18	120	05	48	000		1959	55
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E M	35	18	20	119	37	20	000		1956	15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F M	37	04	38	119	26	00	900		1948	10
B3 5511	MELONES'DAM	900	SEC 11	T01N	R13E	K M	37	57	10	120	30	53	404		1955	55
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H M	36	46	23	120	23	09	013		1941	10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M M	36	39	05	120	27	20	806		1958	10
B0 5528	MENDOTA DAM	1165	SEC 19	T13S	R15E	G M	36	47	15	120	22	12	900		1873	10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q M	36	44	58	120	28	00	000		1948	10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	M	37	17	43	120	29	13	900		1872	24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F M	37	17	47	120	21	09	000		1920	24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A M	37	18	53	120	28	12	900		1938	10
B8 5550	MERCY HOT SPRINGS	1165	SEC 15	T14S	R30E	M	36	45	15	120	33	30	900		1932	1969 10
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C M	36	16	40	118	46	15	900		1957	54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E S	34	51	02	119	11	18	000		1966	15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M	36	26	00	118	35	00	900		1956	1969 54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D M	36	40	00	119	05	00	900		1958	10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M	36	45	15	120	33	30	900		1932	10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B M	37	48	40	120	18	20	401		1935	55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H M	37	38	48	121	00	02	900		1926	50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J M	37	40	12	120	58	42	010		1942	50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	37	38	36	121	00	29	900		1959	50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M	36	13	00	118	10	00	900		1940	54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	M	35	06	15	118	58	00	001		1963	15

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40- Acre Tract	Latitude	Longitude	Cooperator Number	Cooperator's Field Number	Record Begin	Record Ends	Years Missing	County Code
Number	Name													
C1 5832	MORAINA CREEK	8840	SEC 27	T14S	R31E	M 36 43	118 34	9C3			1964			54
C3 5883	MOUNTAIN HOME 2	5360	SEC 26	T19S	R30E	J M 36 14	118 42	54	901		1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E M 37 17	119 06	004			1963			10
BO 6166	NEWMAN 2 NW	106	SEC 12	T07S	R08E	F M 37 20	122 50	000			1899			50
CO 6230-50	NORTH BELBRIDGE	630	SEC 26	T27S	R20E	P M 35 33	04 119 47	28 000			1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M M 37 13	119 30	15 900			1904			20
BO 6303	OKDALE	155	SEC 11	T02S	R10E	N M 37 46	120 50	53 000			1880		01	20
B6 6321-80	OKHURST	2250	SEC 14	T07S	R21E	L M 37 19	116 46	119 38	42 000		1961			20
CO 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F M 36 14	120 16	50 000			1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M 36 18	00 120 24	00 900			1949			10
CO 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C M 35 16	119 16	806			1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K M 35 41	00 118 14	00 900			1938			15
CO 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K M 36 37	118 19	18 40 900			1931			10
BO 6490	ORSTIMBA	110	SEC 02	T07S	R08E	D M 37 21	121 03	47 013			1896			50
B5 6552	OSTRANDER LAKE	8600		T03S	R22E	M 37 38	00 119 33	00 900			1947			22
BH 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B M 37 04	00 121 11	00 900			1949			24
BB 6675	PANOCHO	1265	SEC 25	T15S	R10E	F M 36 35	47 120 49	58 900			1922			35
BB 6676	PANOCHO 2 W	1320	SEC 21	T15S	R10E	M 36 36	30 120 52	48 407			1957			35
BO 6679-05	PANOCHO WATER DIST	183	SEC 14	T12S	R11E	H M 36 53	24 120 43	43 000			1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M 38 03	00 119 40	00 900			1948			55
BO 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M 37 28	00 121 07	00 000			1912			50
B6 6754	PATTWAY	3868	SEC 19	T10N	R23W	E S 34 56	27 119 22	52 900			1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M 36 36	00 118 40	00 900			1956	1969		54
BB 6847	PEFFER RCH	1615	SEC 19	T12S	R08E	C M 36 52	59 121 08	12 000			1954			24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M 38 12	119 59	905			1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F M 38 11	25 119 59	12 003			1922			55
C1 6996	PINE FLAT DAM	615	SEC 02	T13S	R24E	A M 36 49	55 119 19	25 003			1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D M 36 41	54 119 00	54 905			1954			10
CO 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R M 36 03	58 119 01	14 900			1893			54
CO 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R M 36 04	50 119 04	14 000			1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M 35 48	00 118 34	00 900			1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M 35 48	00 118 38	00 900			1954		02	54
CO 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F M 35 33	15 119 04	25 000			1967			15
CO 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J M 35 36	30 119 15	45 001			1913			15
BO 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P M 36 58	57 120 30	04 013			1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M 36 07	00 118 32	00 900			1955			54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M 36 59	00 118 43	00 900			1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J M 37 10	32 119 55	55 000			1940			20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A M 37 22	24 119 54	24 000			1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R M 37 22	37 119 49	58 000			1954			22
CO 7288	RECTOR	344	SEC 03	T19S	R25E	J M 36 18	15 119 14	34 004			1888			54
CO 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E	M 36 37	119 27	808			1962			10
BO 7447-80	RIPON	65	SEC 20	T02S	R08E	M 37 44	33 121 07	21 000			1963			39
CO 7460	RIVERDALE	220	SEC 24	T17S	R19E	P M 36 25	58 119 51	36 000			1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K M 37 20	45 120 08	42 000			1957			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M 36 04	24 118 38	12 901			1964			54
CO 7555	ROSEDALE	380	SEC 01	T29S	R26E	R M 35 25	40 119 07	42 001			1940			15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M 37 19	00 118 52	00 900			1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M 35 58	00 118 21	00 900			1947			54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E	M 38 06	00 119 51	00 900			1948			55
CO 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L S 34 59	45 119 10	59 900			1901			15
CO 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K M 36 43	40 119 32	36 000			1959			10
CO 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E M 36 43	48 119 32	38 808			1950			10
CO 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J M 36 26	25 120 11	15 000			1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E M 37 05	40 119 43	38 900			1934			20
CO 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J M 36 26	28 120 11	18 808			1962			10
BB 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M 37 03	121 04	904			1959			24
BO 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P M 37 06	07 120 42	04 013			1944			24
CO 7987-80	SANTIAGO RANCH M & L	437	SEC 27	T12N	R22W	S 35 05	35 119 12	35 000			1963			15
BO 8316	SNELLING	259	SEC 04	T05S	R14E	M 37 31	24 120 26	18 000			1882		19	24
BO 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J M 37 32	35 120 28	57 000			1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M 37 50	00 119 30	00 900			1947			22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P M 37 01	30 119 15	06 905			1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M 37 59	00 120 23	00 900			1887			55
CO 8375-50	SOUTH BELBRIDGE	575	SEC 28	T28S	R21E	R M 35 27	23 120 42	37 000			1938			15
BO 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E M 37 57	45 120 38	48 000			1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N M 37 30	26 119 37	55 900			1941			22
CO 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A M 35 56	02 119 38	46 000			1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H M 38 10	06 120 06	08 003			1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D M 36 09	47 118 42	21 900			1953			54

TABLE A-2
PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

- No record or record incomplete.
- * Amount included in the following measurement. Time distribution unknown.
- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- V Includes total from previous month.
- RB Record begins.
- RE Record ends.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fischer & Porter recording rain gages are used, these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1968						1969						TOTAL OCT. 1 TO SEPT 30			
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE		JULY	AUG	SEP
KERN RIVER																	
ISABELLA DAM	22.00	0.1	0.11	0.70	0.49	1.20	1.66	9.56	6.12	1.14	0.95	0.35	0.34	0.27	0.00	0.10	22.25
JOHNSONDALE	53.00	0.20	0.00	0.00	1.17	1.62	5.03	24.94	13.29	3.00	1.95	0.47	1.32	0.42E	0.00E	T	53.21E
KERN CANYON	10.13	0.11	0.00	0.00	1.47	0.59	1.17	4.01	4.92	1.24	1.47	0.05	0.00	0.00	0.00	T	14.92
KERN R 1 INTAKE SCE	9.14	0.41	0.00	0.00	0.95	1.62	3.69	18.15	10.99	0.90	1.31	0.56	0.91	0.83	0.02	0.02	39.55
KERN RIVER PH NO 1	15.88	0.11	0.30	0.00	1.57	0.97	1.88	4.68	6.07	1.63	1.80	0.07	0.10	0.01	0.00	T	18.78
KERN RIVER PH NO 3																	
ONYX	16.53	0.26	T	0.00	0.36	1.20	2.05	11.67	7.62	1.17	1.06	0.17	0.75	0.32	T	T	26.37
TEH HIGH NINE	4.88E	0.08	0.00	0.00	0.43	0.99	1.01	8.31	5.37	1.33	0.86	0.15	0.00	0.48	0.00	0.00	18.93
WELDON 1 WSW	17.67E	0.16	0.10	0.00	0.21	3.17	4.65	11.65	11.29	4.50	2.64	0.28	0.24	0.46	0.00	0.00	41.13
WIFFORD HEIGHTS	22.16	0.14	T	0.00	0.24	1.25	1.78	9.80	6.44	0.92	0.83	0.50	0.26	0.30	T	0.35	22.67
TEHACHAPI MOUNTAINS C6																	
CHUOCHAPATE R S	16.74	0.00	0.10	0.00	1.00E	1.00	1.10	-	-	1.00	1.60	0.20	0.00	0.10	0.10	0.00	-
CUNNINGMS VALLEY 2	20.27E	0.00	T	0.00	1.03	1.64	2.15	4.78	4.90	1.47	0.67	0.07	0.03	0.06	0.00	0.05	16.85
KEENE	20.27E	0.03	0.00	0.00E	0.72	1.26	3.60	4.65	6.07	1.37	2.49	0.01	0.05	0.07	0.00	0.01	20.32
LESEC	18.60	0.01	0.16	0.00	0.62	0.85	1.58	5.02	6.93	1.60	1.55	0.11	0.17	0.07	0.00	0.00	18.50
LORAINNE	21.18E	0.08	0.00	0.00	0.83	1.74	2.85	5.89	6.75	1.46E	1.47	0.11	0.00	0.34	0.00	0.05	21.49E
MIL POTRERO																	
PATTHAY	30.04	0.07	0.21	0.00	1.63	1.38	2.77	11.78	6.09	1.59	2.24	0.25	0.03	0.19	0.03	T	30.04
TEHACHAPI	17.73E	T	T	0.00	1.64	0.77	1.15	2.67	5.47	1.39	2.31	0.19	0.00	0.31	0.00	0.00	15.90
TEHACHAPI AP	11.96E	0.05	0.00	0.00E	0.49	1.21	2.24	5.16	5.69	1.60	1.16	0.02	0.00	0.26	0.00	0.12	17.84
WALKER BASIN	31.55E	0.08E	0.00	0.00	0.60E	0.94	1.32	3.54	3.45	0.88	0.93	0.05	0.20	0.19	0.00	0.15	12.25E
TILARE L BAS WESTSIDE C7																	
ANNETTE	20.07	0.00E	0.00E	0.00E	1.56	1.29	1.14	7.47	7.42	0.24	0.95	0.50	0.00	0.00	0.00	0.07	20.14
AVENAL B SW	31.83	0.00	T	0.00	2.13	1.23	2.66	14.56	10.06	T	1.11	0.06	0.00	0.17	0.00	0.19	32.19
AVENAL 6 SW	23.19	0.00	0.00	0.00	1.74	1.32	1.96	9.99	6.87	0.25	1.00	0.96	0.00	0.08	0.00	0.10	23.37
CHICO RANCHO								RE	T		RE	T	0.00	0.10	0.00	0.26	-
CHLOANE TWISSELMAN	22.41	0.00	0.00	0.00	1.77	1.08	1.53	8.91	7.13	0.72	1.27	0.00	0.00	0.10	0.00	0.04	22.55
COALINGA 14 WSW																	
COALINGA ROBERTS RCH	31.63	0.00	0.00	0.00	1.49	1.28	2.69	12.17	11.51	0.67	1.82	0.00	0.00	0.00	0.00	0.24	31.87
DOMEZINE RCH	19.25	T	T	0.00	1.42	1.04	0.92	7.14	6.69	0.88	0.68	0.00	0.28	T	0.00	0.15	19.40
DOMEZINE SPRINGS	24.45E	0.00	0.00E	0.00E	1.30	1.38	1.60	9.10	8.12	1.05	0.75	0.00	1.15	0.00	0.00	0.00	24.45
FELLOWS	10.88E	0.00E	0.00E	0.00E	1.42	0.39	0.48	2.27	4.37	1.03	1.26	0.02	0.03	0.00	0.00	0.01	10.88
MARICOPA F S																	
MARTINEZ SPRINGS	25.29E	0.00	0.00E	0.00E	1.47	1.00	1.85	9.70	8.22	0.95	0.70	0.00E	1.40	0.00E	0.00E	0.00E	25.29E
MC KITTERICK F S	10.16	0.00	0.00	0.00	1.30	0.68	0.26	3.17	3.69	0.37	0.69	T	0.00	0.80	0.00	T	10.96
TAFT	8.57	0.00	0.00	0.00	1.53	0.40	0.47	1.95	3.18	0.32	0.72	0.00	0.00	0.20	0.00	0.00	8.77
TAFT WYR	9.53	T	T	0.00	1.42	0.37	0.50	2.30	3.41	0.46	0.64	0.03	T	0.18	0.00	T	9.51
THIRTY-TWO CORRAL																	
THIRTY-TWO CORRAL	24.68E	0.00	0.00E	0.00E	1.52	1.28	1.57	9.50	7.98	1.47	0.70	0.00E	0.66	0.00E	0.00E	0.00E	24.68E

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1968-69 Season		
		Measurement Period		Precipitation in inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-10-68	8- 6-69	43.9
LAKE ALPINE	DEPT OF WATER RESOURCES	7-10-68	8- 6-69	105.6
TUOLUMNE RIVER B4				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	9-27-68	8-26-69	74.8
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	10- 6-68	10- 1-69	42.7
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	10- 8-68	9- 9-69	72.8
LOWER KIBBY RIDGE	HETCH HETCHY WATER SUPPLY	10-11-68	10-13-69	82.4
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	10- 4-68	9-29-69	73.2
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	10-11-68	8- 7-69	80.4
TUOLUMNE MEADOWS	DEPT OF WATER RESOURCES	7- 9-68	8- 5-69	53.7
MERCED RIVER B3				
BADGER PASS	NATIONAL PARK SERVICE	RECORD NOT AVAILABLE		
OSTRANDER LAKE	NATIONAL PARK SERVICE	8-18-68	8- 8-69	84.30
SNOW FLATS	DEPT OF WATER RESOURCES	7- 9-68	8- 5-69	92.2
SAN JOAQUIN RIVER B6				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	7- 8-68	8- 4-69	80.1
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 8-68	8- 4-69	79.5
KAISER MEADOW	SO CALIF EDISON COMPANY	9-19-68	6-26-69	67.1**
MAMMOTH POOL	SO CALIF EDISON COMPANY	9-24-68	6-29-69	67.0
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	9-27-68	7-31-69	60.4**
VERMILION VALLEY	SO CALIF EDISON COMPANY	9-20-68	6-26-69	41.2**
TULARE LAKE BASIN C0				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	7- 8-68	7-22-69	49.88
DUSY BENCH	U S CORPS OF ENGINEERS	9- 9-68	9-11-69	-
MITCHELL MEADOW	U S CORPS OF ENGINEERS	7-11-68		RE
MORaine CREEK	U S CORPS OF ENGINEERS	10- 9-68	9-10-69	73.26*
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	10- 8-68	9-11-69	89.56
STATE LAKES	U S CORPS OF ENGINEERS	10- 8-68	9-11-69	61.78
SUMMIT MEADOW	U S CORPS OF ENGINEERS	9-30-68	10- 6-69	94.24
VIDETTE MEADOW	U S CORPS OF ENGINEERS	10- 9-68	9-10-69	76.26*
UPPER WOODCHUCK	FRESNO STATE COLLEGE		7- 9-69	RE
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	10- 8-68	7-10-69	69.28
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	7-10-68	7-23-69	99.36
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10- 7-68	9-12-69	69.48
MINERAL KING	U S CORPS OF ENGINEERS	10- 8-68	7-10-69	76.97*
PEAR LAKE	U S CORPS OF ENGINEERS	7- 9-68	9-12-69	122.26E**
GIANT FOREST	U S CORPS OF ENGINEERS	7- 9-68	7-23-69	92.65
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	10- 9-68	9-12-69	63.98
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	7-12-68	7- 9-69	76.13
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	7-13-68	7- 7-69	72.16
ROGERS CAMP	U S CORPS OF ENGINEERS	7-13-68	7- 9-69	67.54

* Gage may have been overtopped by snowpack.

** Gage was overtopped by snowpack.

RE Record ends.

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1968- 69 Season		
		Measurement Period		Precipitation in Inches
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	10- 8-68	9-12-69	63.46
CRABTREE MEADOW	U S CORPS OF ENGINEERS	9- 6-68	9-20-69	44.64
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	6-11-68	7- 8-69	75.30
MONACHE MEADOW	U S CORPS OF ENGINEERS	9-14-68	9-29-69	29.40
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	7-10-68	7- 8-69	78.56
QUAKING ASPEN	U S CORPS OF ENGINEERS	7-11-68	7- 8-69	92.60
ROUND MEADOW	U S CORPS OF ENGINEERS	7-11-68	9-16-69	67.45
TUNNEL R S	DEPT OF WATER RESOURCES	9-14-68	9-26-69	42.05
WET MEADOW	U S CORPS OF ENGINEERS	10- 7-68	9-12-69	63.71**
TULARE L BASIN WESTSIDE C7				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	7-29-68	7-31-69	15.79

* Gage may have been overtopped by snowpack.

** Gage was overtopped by snowpack.

RE Record ends.

TABLE A-4

TEMPERATURE DATA

The definition of terms and abbreviations used in this table follows:

Max	The highest temperature of record for the month.
Min	The lowest temperature of record for the month.
Av Max	The arithmetical average of daily maximum temperatures for the month.
Av Min	The arithmetical average of daily minimum temperatures for the month.
Avg	The arithmetical average of daily maximum and minimum temperatures for the month.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

TABLE A-5

EVAPORATION DATA

The definition of terms and the abbreviations used in this table follows:

Evap	The total amount of water evaporated from the pan for the month.
Wind	The amount of movement of air over the pan in miles for the month.
Av Max	Arithmetical average of daily maximum water temperature for the month.
Av Min	Arithmetical average of daily minimum water temperature for the month.
-	No record.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

Wind and water temperature data are not available at all evaporation stations.

EVAPORATION IN INCHES
 WIND MOVEMENT IN MILES
 WATER TEMPERATURE IN DEGREES FAHRENHEIT

TABLE A-5
 EVAPORATION DATA

STATION NAME	TOTAL JULY 1 TO JUNE 30	1968						1969						TOTAL OCT. TO SEPT 30			
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE				
SAN JOAQUIN BASIN																	
SAN JOAQUIN VAL FL BD																	
KNIGHTS FERRY 2 SE	EVAP WIND	9280	11.92 954	14.5 772	14.1 811	4.81 41	1.84 84	4.4 41	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
LOS BANOS FIELD STA	EVAP WIND	89.66 13532	17.06 1907	11.72 1281	11.34 1284	5.15 1650	1.69 1989	1.12 1989	1.60	1.92	4.98	1.80	11.10	11.45	16.00	14.44	11.41
MUSTLEY	EVAP	10.43E	11.12	11.14	11.53	5.16	2.16	1.93	1.86	1.95	3.9E	1.88	11.11	11.61	11.49	11.84	11.4
TUOLUMNE RIVER B4																	
DON PEDRO RES	EVAP	79.33E	15.84	12.07	17.52	5.96	1.82	1.88	1.25E	1.88	1.81	1.8	11.8	11.8	11.8	11.8	11.8
FRESNO-CHONCHILLA R B6																	
CATREYS VAL BULL RUN R	EVAP WIND	64.29 1555	11.51 1264	11.36 1048	10.52	4.33 683	1.33 145	1.38 946	1.20	1.27	1.46	4.76	11.16	11.61	12.76	11.72	11.82
SAN JOAQUIN RIVER B7																	
FRIANT GOVERNMENT CAMP	EVAP AV MAX AV MIN	73.23 14111	13.93 1137	11.20 1031	9.13 812	4.72 703	1.56 849	1.14 1102	1.26	1.79	3.58	5.27	9.45	10.20	12.97	12.00	8.81
SAN JOAQUIN VAL WESTSIDE B8																	
LITTLE PANOCHIE DET DAM	EVAP WIND	102.33 35541	18.48 3228	15.30 3467	12.92 3206	6.82 2553	2.38 2083	1.73 2265	1.63	1.94	1.87	11.40	13.67	14.01	17.80	17.08	11.1
LOS BANOS DET RES	EVAP WIND	105.42 64398E	19.09 5999	15.34 6541	13.11 5496	6.84 4295	2.56 3043	1.77 1943	2.07	1.88	5.08E	8.63	14.22	14.65	17.22	16.66	11.70
SAN LUIS DAM	EVAP WIND	105.04 52888	21.07 243	15.43 1637	12.65 1441	6.75 2291	2.40 2002	1.76 2031	1.03	1.85	5.38	8.67	13.38	14.31	19.20	19.07	12.98
TULARE LAKE BASIN																	
TULARE L VAL FLOOR CD																	
CORCORAN EL BICO 1	EVAP WIND	76.29 17698E	14.15 1550	11.65 1685	9.51 1380	5.04 1115	1.54 848	1.73 1250	1.45	1.70	3.67	6.50	10.75	11.20	13.07	12.28E	9.91E
DELANO GOVT CAMP	EVAP	70.44E	11.82	9.87	8.21	3.72	1.56	1.05E	0.87E	1.20	3.91	2.55	10.42	11.31	13.60	11.52	8.38
KETTLEMAN CITY	EVAP WIND	88.86 15740E	15.05 1222	12.62 1414	10.25 1186	5.41 1089	1.88 811	1.51 1308	1.13	2.09	5.20	8.07	11.60	11.65	14.58	13.43	10.28
OLD RIVER 1 SW	EVAP WIND	68.02 10926	11.32 959	9.30 924	7.29 651	3.48 758	1.08 164	1.65 988	1.14	1.85	4.02	5.75	9.33	10.75	15.91	13.1	10.84
S S COTTON FIELD STA	EVAP WIND	8.70 18176	13.01 1431	10.54 1292	9.06 928	4.92 1057	1.79 848	1.39 1298	1.31	2.13	5.07	6.78	10.74	11.04	13.46	11.41	9.36
KINGS RIVER C1																	
PINE FLAT DAM	EVAP WIND	60.47 7450	11.36 675	10.20 768	8.48 882	4.09 556	1.22 385	1.72 965	0.48	0.80	2.82	4.49	7.73	6.71	11.02	10.7	7.46
KAMEAH RIVER C2	EVAP WIND	79.56 20824	14.73 1698	12.51 1807	11.01 1924	5.75 1942	1.93 1554	1.30 1829	0.69	1.58	4.01	1.69	10.26	9.90	14.18	14.41	10.58
TERMINUS DAM	EVAP WIND	79.56 20824	14.73 1698	12.51 1807	11.01 1924	5.75 1942	1.93 1554	1.30 1829	0.69	1.58	4.01	1.69	10.26	9.90	14.18	14.41	10.58
WHITAKER FOREST	EVAP WIND	8.35 974	6.97 761	6.35 777	6.35 777	2.81 556	-	-	-	-	-	-	-	4.05	7.22	8.10	5.58
TULE RIVER C3																	
SUCCESS DAM	EVAP WIND	77.04 15091	14.04 1244	11.90 1365	9.64 1206	4.88 1249	1.82 974	1.19 1199	0.99	1.84	4.33	6.17	10.20	10.07	13.16	13.06	9.64
KERN RIVER C5	EVAP WIND	96.89 15360	15.37 1350	11.03 1540	11.41 1460	5.82 1010	2.27 770	1.9 110	1.48	2.11	4.57	7.01	10.81	11.30	14.90	14.08	10.35
ISABELLA DAM	EVAP WIND	73.78E 22442	12.70 1967	11.06 2046	9.31 1510	5.34 1487	1.54 1451	1.31 1575	1.40E	1.59	3.85	5.65	9.25	9.48	12.02	12.77	9.11
TENACHAPI MTN C6	EVAP WIND	96.89 15360	15.37 1350	11.03 1540	11.41 1460	5.82 1010	2.27 770	1.9 110	1.48	2.11	4.57	7.01	10.81	11.30	14.90	14.08	10.35
CUNNINGHAM VALLEY	EVAP WIND	74.96 24072	10.94 1091	9.88 1708	9.29 1321	4.40 1736	1.16 2143	1.89 1294	1.61	4.34	4.87	5.23	7.32	8.04	11.52	11.01	8.23
TULARE L BASINWESTSIDE C																	
TAFT	EVAP WIND	96.89 15360	15.37 1350	11.03 1540	11.41 1460	5.82 1010	2.27 770	1.9 110	1.48	2.11	4.57	7.01	10.81	11.30	14.90	14.08	10.35

TABLE A-6

CLIMATOLOGICAL STATION CHANGES
AND
RELOCATIONSChanges in Station Names

<u>New Name</u>	<u>Former Name</u>	
Blackwells Corner 2 WNW	Blackwells Corner	9-29-69
Denair-Barfield	Denair-Chance	7- 1-68
Triangle Desmond	Triangle York	5- 9-69

Station Number Changes

	<u>Old Number</u>	<u>New Number</u>	
Pinecrest Summit R S	B3-6893-01	B3-6893	10- 1-69
Pinecrest Strawberry	B3-6893	B3-6893-01	10- 1-69

Equipment Changes and Relocations

Blackwells Corner	Equipment moved 1.5 mi. WNW	9-29-69
Corcoran El Rico 1	Equipment moved 5.9 mi. NE	4-11-69
Dusy Bench	Equipment moved 300 ft. WNW	9-11-69
Giant Forest	Recording raingage and thermometers moved 4 mi. NE	11- 8-68
Hilmar	Equipment moved .5 mi. South	5-23-69
Hodgdon Meadow	Equipment moved 600 ft. West	4-17-69
Panoche Water Dist.	Installed thermometers	3- 2-69
San Luis Canal Co.	Equipment moved 3.6 mi. NE	1- 2-68
South Dos Palos	Equipment moved .25 mi. SE	7- 1-67
Tehachapi	Equipment moved .3 mi. ESE	7-16-68
Triangle-York	Equipment moved .3 mi. West	5- 9-69

APPENDIX B
SURFACE WATER MEASUREMENT



INTRODUCTION

This appendix presents surface water data for the 1969 water year, which is from October 1, 1968 to September 30, 1969. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, additions and discontinuations, corrections and revisions to previously published reports, and discharge measurements at miscellaneous sites.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B

SAN JOAQUIN RIVER BASIN

- B0 - San Joaquin Valley Floor
- B3 - Stanislaus River
- B4 - Tuolumne River
- B5 - Merced River
- B6 - Fresno-Chowchilla Rivers
- B7 - San Joaquin River
- B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

- C0 - Tulare Lake Valley Floor
- C1 - Kings River
- C2 - Kaweah River
- C3 - Tule River
- C4 - Greenhorn Mountains
- C5 - Kern River
- C6 - Tehachapi Mountains
- C7 - Tulare Lake Basin on West Side

ALPHABETICAL INDEX TO TABLES

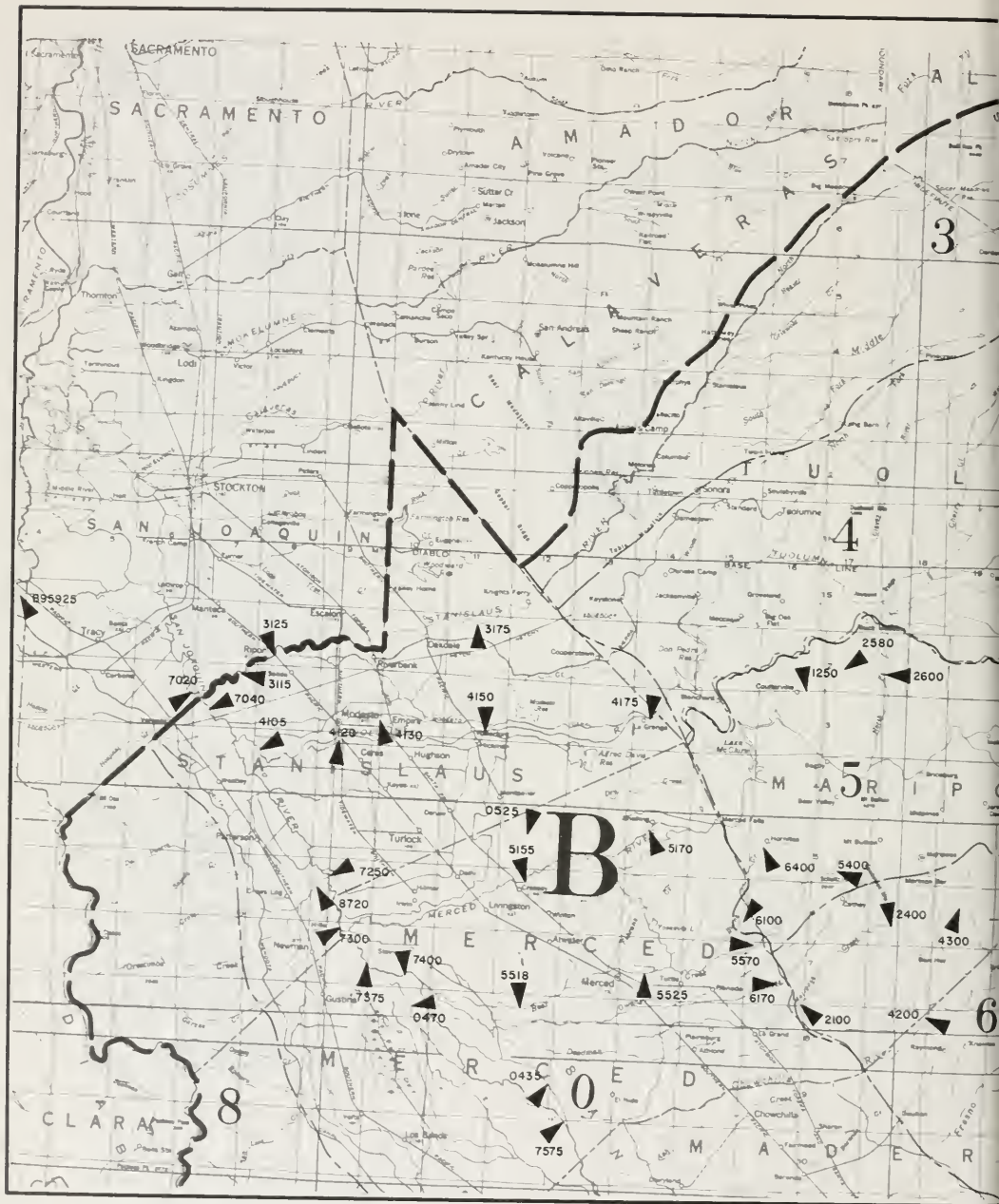
DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page	
	Daily Mean Discharge	Daily Mean Gage Height
Bean Creek near Coulterville	76	
Bear Creek below Bear Reservoir	66	
near Catheys Valley	65	
at McKee Road near Merced	67	
at Merced Irrigation District West Boundary	68	
Big Creek Diversion near Fish Camp	55	
Buena Vista Creek near Taylor	105	
Burns Creek below Burns Reservoir	59	
at Hornitos	70	
Campbell-Moreland Ditch above Porterville	96	
Chowchilla River near Raymond	60	
West Fork near Mariposa	59	
Cross Creek below Lakeland Canal #2	92	
Delta-Mendota Canal near Tracy	51	
to Mendota Pool	52	
Dry Creek near Modesto	85	137
Eastside Bypass near El Nido	61	
Fresno River Eight Miles West of Madera	58	
Lewis Fork near Oakhurst	56	
Friant-Kern Canal Delivery to Porter Slough	93	
to Tule River	94	
Hubbs-Miner Ditch at Porterville	101	
James Bypass near San Joaquin	50	
Kaweah River Inflow to Tulare Lake	107	
Kern River near Bakersfield	104	
Inflow to Tulare Lake	108	
Kings River	91	
South Fork, below Empire Weir #2	91	
Inflow to Tulare Lake	107	
Mariposa Creek near Catheys Valley	62	
below Mariposa Reservoir	63	
Maxwell Creek at Coulterville	77	
Merced River at Cressey	79	132
below Snelling	78	131
North Fork near Coulterville	75	
Miami Creek near Oakhurst	57	
Mustang Creek near Ballico	80	
Orestimba Creek near Crows Landing	81	
Owens Creek below Owens Reservoir	100	
Panoche Drain near Dos Palos	73	
Poplar Ditch near Porterville	64	
Porter Slough at Porterville	97	
Porter Slough Ditch at Porterville	98	
Rhodes-Fine Ditch near Porterville	102	
Salt Slough near Stevenson	74	
San Joaquin River at Crows Landing Bridge	82	134
near Dos Palos	54	
at Fremont Ford Bridge	49	130
below Friant	127	
at Vase Road Bridge	87	140
near Mendota	53	
near Newman	133	
above Sand Slough	128	
near Stevenson	72	129
near Vernalis	90	144
Stanislaus River at Koettitz Ranch	89	143
at Orange Blossom Bridge	88	141
at Ripon	142	
Tulare Lake	126	
Total Inflow	106	
Tule River below Porterville	95	
Inflow to Tulare Lake	108	
Tuolumne River at Hickman Bridge	84	136
at La Grange Bridge	83	135
at Modesto	138	
at Tuolumne City	86	139
Vandalia Ditch near Porterville	99	
Woods-Central Ditch near Porterville	103	
DIVERSIONS		
Deliveries from California Aqueduct	124	
Deliveries from Central Valley Project Canals	122	
Dry Creek	118	
East Side Canals and Irrigation Districts	121	
Merced River	119	
San Joaquin River		
Vernalis to Fremont Ford Bridge	112	
Fremont Ford Bridge to Gravelly Ford	114	
Gravelly Ford to Friant Dam	115	
Stanislaus River	116	
Tule River	120	
Tuolumne River	117	
GAGING STATION ADDITIONS AND DISCONTINUATIONS		
		47
IMPORTS AND EXPORTS		
		125
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS		
		145
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS		
		109
UNIMPAIRED RUNOFF		
Annual		44
Monthly		46

HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS





Page

Station Number		Page	
		Daily Mean Discharge	Daily Mean Gage Height
<u>HYDROGRAPHIC AREA B</u>			
SAN JOAQUIN VALLEY FLOOR			
B00435	Eastside Bypass near El Nido	61	
0470	Salt Slough near Stevinson	74	
0525	Mustang Creek near Ballico	80	
0770	Delta-Mendota Canal to Mendota Pool	52	
0975	Panoche Drain near Dos Palos	73	
3115	Stanislaus River at Koeltitz Ranch	89	
3125	at Ripon		142
3175	at Orange Blossom Bridge	88	141
4105	Tuolumne River at Tuolumne City	86	139
4120	at Modesto		138
4130	Dry Creek near Modesto	85	137
4150	Tuolumne River at Hickman Bridge	84	136
4175	at La Grange Bridge	83	135
5155	Merced River at Cressey	79	132
5170	below Snelling	78	131
5188	Bear Creek at Merced Irrigation District West Boundary	68	
5525	at McKee Road near Merced	67	
5570	below Bear Reservoir	66	
6170	Owens Creek below Owens Reservoir	64	
6725	Fresno River Eight Miles West of Madera	58	
7020	San Joaquin River near Vernalis	90	144
7040	at Maze Road Bridge	87	140
7250	at Crows Landing Bridge	82	134
7300	near Newman		133
7375	at Fremont Ford Bridge		130
7400	near Stevinson	72	129
7575	above Sand Slough		128
7610	near Dos Palos	54	
7710	near Mendota	53	
7985	below Friant	49	127
8720	Orestimba Creek near Crows Landing	81	
MERCED RIVER			
B51250	Maxwell Creek at Coulterville	77	
2580	Bean Creek near Coulterville	76	
2600	Merced River, North Fork, near Coulterville	75	
5400	Bear Creek near Catheys Valley	65	
6100	Burns Creek below Burns Reservoir	71	
6400	at Hornitos	70	
FRESNO - CHOWCHILLA RIVERS			
B62100	Mariposa Creek below Mariposa Reservoir	63	
2400	near Catheys Valley	62	
4200	Chowchilla River near Raymond	60	
4300	West Fork, near Mariposa	57	
7300	Miami Creek near Oakhurst	59	
7325	Fresno River, Lewis Fork near Oakhurst	56	
7920	Big Creek Diversion near Fish Camp	55	
SACRAMENTO - SAN JOAQUIN DELTA			
B95925	Delta-Mendota Canal near Tracy	51	
<u>HYDROGRAPHIC AREA C</u>			
TULARE LAKE VALLEY FLOOR			
C00200	James Bypass near San Joaquin	50	
1120	Kings River, South Fork, below Empire Weir #2	91	
2602	Cross Creek below Lakeland Canal #2	92	
3110	Tulare Lake		126
3169	Tule River below Porterville	95	
3182	Porter Slough at Porterville	97	
3913	Friant-Kern Canal Delivery to Porter Slough	93	
3923	to Tule River	94	
3925	Hubbs-Miner Ditch at Porterville	101	
3940	Rhodes-Fine Ditch near Porterville	102	
3948	Woods-Central Ditch near Porterville	103	
3960	Poplar Ditch near Porterville	100	
3965	Vandalia Ditch near Porterville	99	
3970	Campbell-Moreland Ditch above Porterville	96	
3984	Porter Slough Ditch at Porterville	98	
5150	Kern River near Bakersfield	104	
7120	Buena Vista Creek near Taft	105	





LEGEND

-  SURFACE WATER MEASUREMENT STATIONS
-  DISTRICT BOUNDARY
-  HYDROGRAPHIC UNIT BOUNDARY
-  MAJOR DRAINAGE BOUNDARY

NOTE

Index to Surface Water Measurement Stations located on page 37.

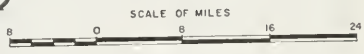


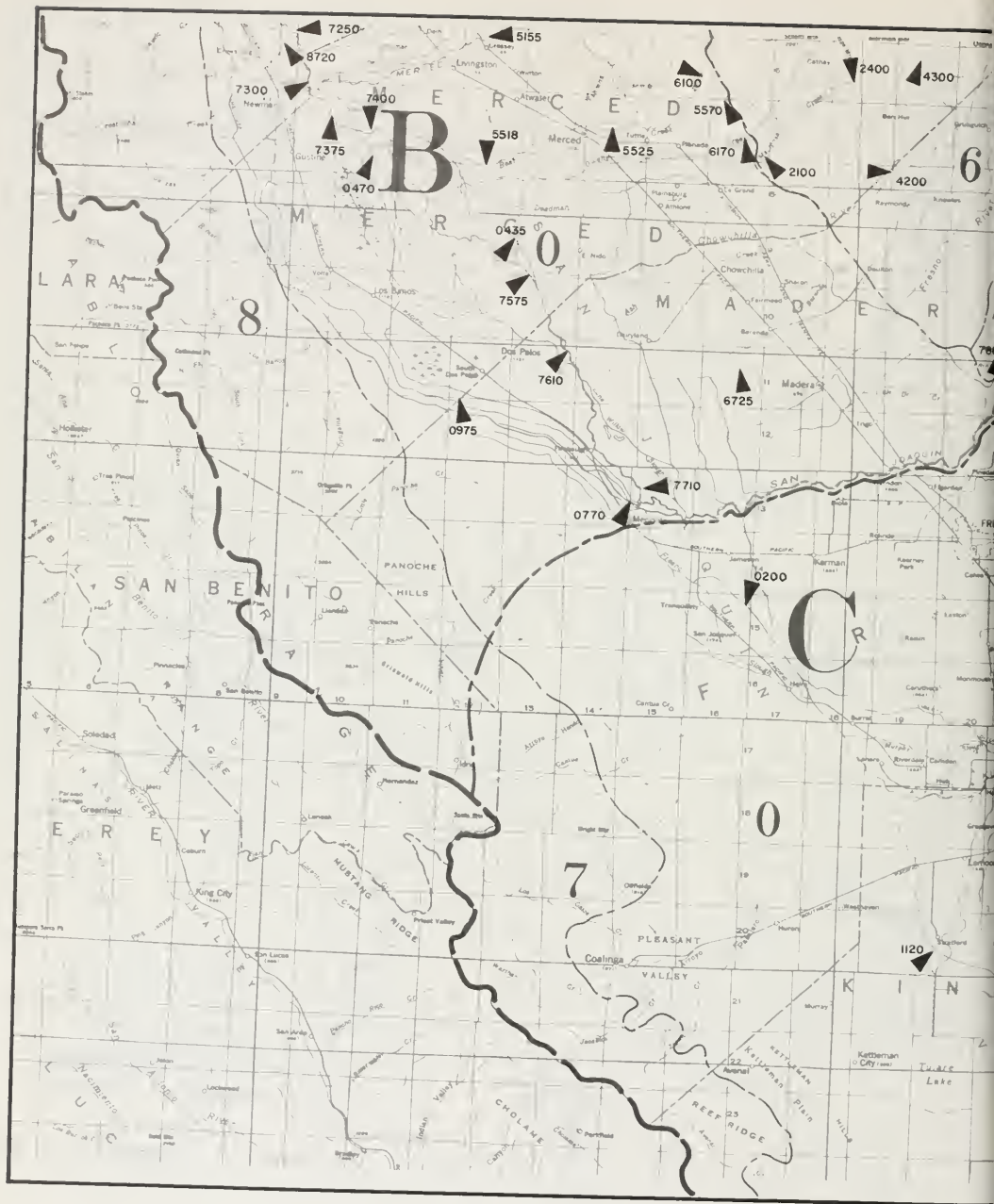
KEY TO SHEETS

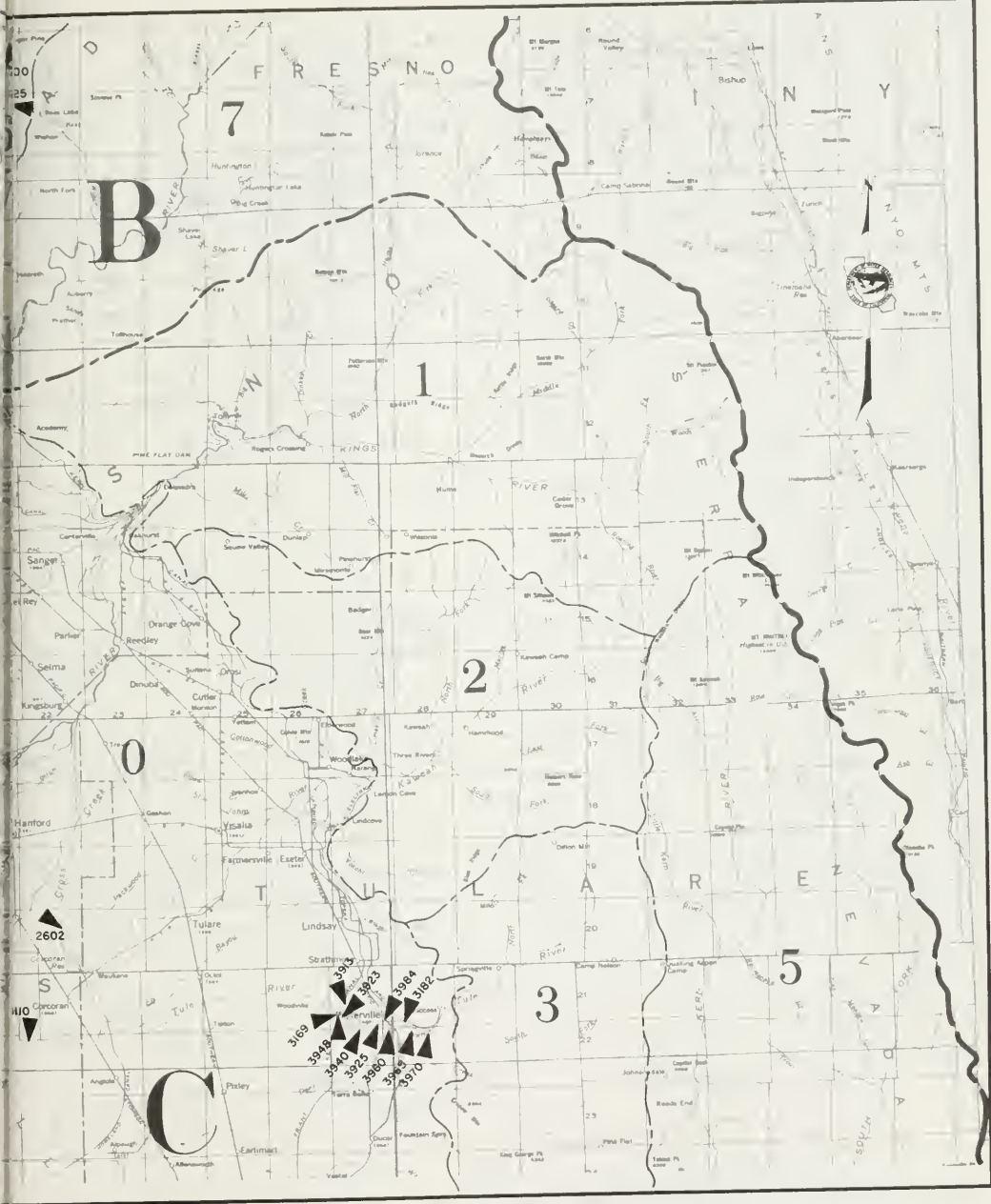
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1969

LOCATION OF SURFACE WATER MEASUREMENT STATIONS







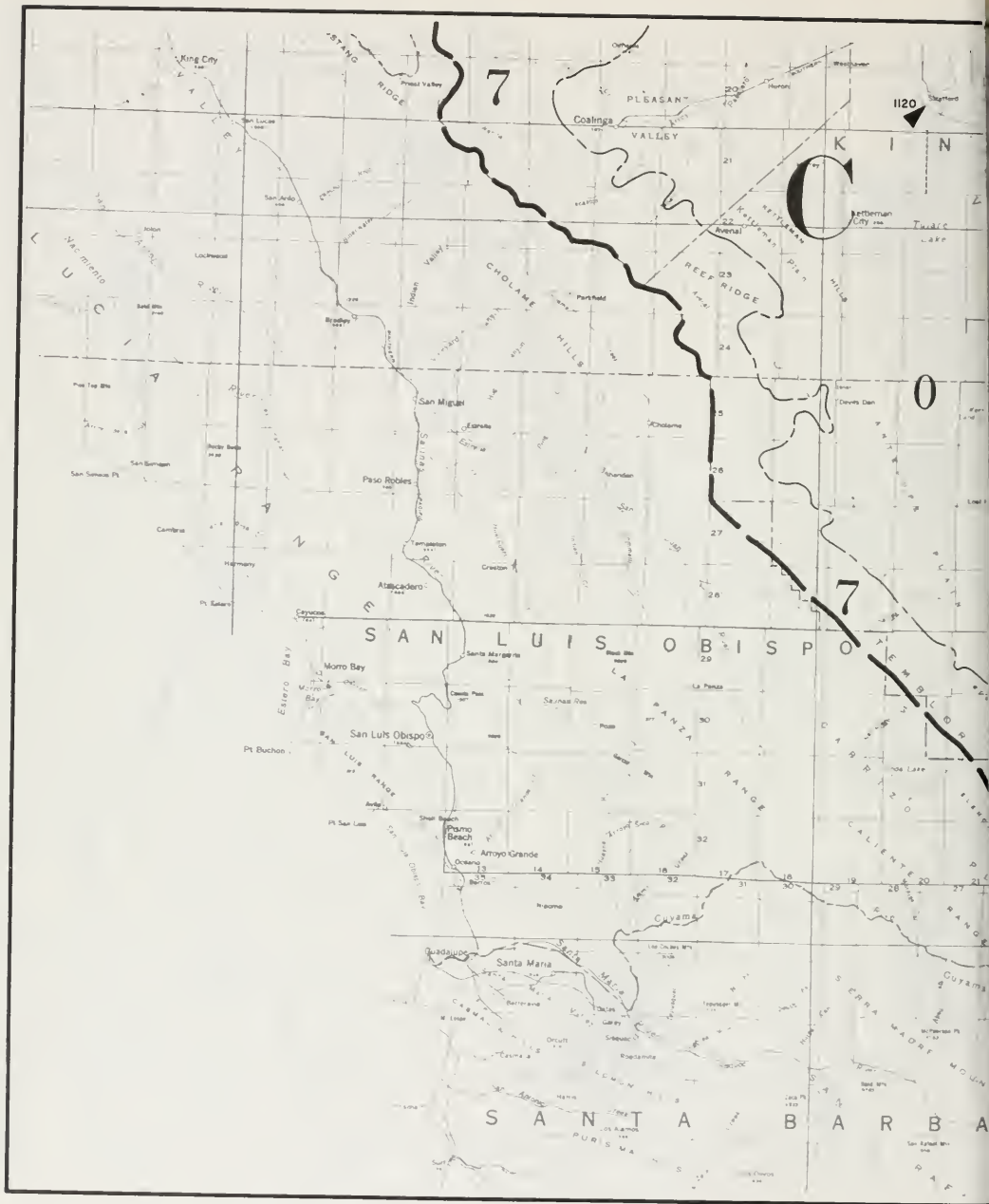




TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1915 through September 1965.

TABLE B-1
ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	Sacramento River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kerr River Inflow to Isabella
Average Annual Runoff (a)	1000	1741	897	1611	1312	4530	201	124	604
1928-29	49	56	54	33	34	56	38		
1929-30	69	66	57	53	61	56	51		51
1930-31	28	35	29	30	31	30	30	28	31
1931-32	128	121	124	127	123	136	136	112	115
1932-33	58	64	57	69	63	77	74	65	71
1933-34	40	47	40	43	43	4	34	16	38
1934-35	115	121	131	119	121	106	93	72	76
1935-36	125	125	128	115	122	123	127	138	124
1936-37	105	115	135	137	123	153	177	247	183
1937-38	193	197	232	228	212	214	227	287	213
1938-39	50	57	53	57	55	64	65	67	75
1939-40	133	128	122	116	124	117	134	170	115
1940-41	127	144	162	164	150	166	167	191	206
1941-42	141	136	143	139	139	131	128	110	124
1942-43	148	136	144	127	137	132	175	295	166
1943-44	64	75	76	78	74	76	82	83	96
1944-45	121	121	122	132	124	135	144	164	134
1945-46	111	108	105	107	108	105	93	76	107
1946-47	60	63	63	70	64	72	69	42	70
1947-48	85	81	77	75	79	65	68	52	55
1948-49	71	72	71	72	72	63	57	39	49
1949-50	102	89	80	81	88	84	79	50	72
1950-51	160	143	137	115	131	105	110	125	88
1951-52	182	172	174	176	175	187	215	259	231
1952-53	92	88	70	76	82	76	80	80	90
1953-54	84	83	74	81	81	85	80	72	83
1954-55	64	65	60	72	66	72	72	52	59
1955-56	178	182	187	183	182	166	189	169	144
1956-57	85	82	72	82	81	81	77	53	72
1957-58	159	152	157	163	157	161	167	180	174
1958-59	55	57	51	59	56	53	40	26	45
1959-60	56	61	54	51	56	47	47	39	46
1960-61	38	42	35	40	40	37	31	16	29
1961-62	94	102	103	119	106	120	104	70	108
1962-63	120	118	110	120	118	122	130	96	122
1963-64	62	65	50	57	60	56	61	49	52
1964-65	168	159	149	141	153	126	127	110	114
1965-66	67	76	75	80	76	79	64	38	66
1966-67	183	179	191	200	188	212	267	302	261
1967-68	61	59	47	53	55	52	56	52	76
1968-69 (c)	209	213	245	250	224	277	333	404	366

(a) Average unimpaired runoff in thousands of acre-feet computed from the 31-year period October 1914 through September 1965.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary figures and subject to revision.

TABLE B-2
MONTHLY UNIMPAIRED RUNOFF
In percent of average^(a)

Month		Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	76	95	0	84	75	83	100	20	88
	Average	8	15	7	18	49	18	4	1	14
November	Percent	148	210	128	142	166	117	99	54	83
	Average	23	39	18	28	107	26	8	4	17
December	Percent	102	96	86	91	94	87	67	69	74
	Average	48	84	43	57	233	48	17	8	23
January	Percent	638	635	730	661	660	754	1005	857	649
	Average	54	90	48	60	251	52	18	12	24
February	Percent	225	195	272	254	231	254	386	472	291
	Average	82	137	79	92	390	79	28	18	32
March	Percent	136	130	179	178	153	173	255	291	286
	Average	113	171	92	128	503	106	38	24	45
April	Percent	168	159	181	196	175	185	232	349	391
	Average	199	283	148	237	867	215	64	24	86
May	Percent	214	207	237	261	230	265	280	350	418
	Average	287	440	239	420	1386	421	101	21	142
June	Percent	156	206	238	238	214	288	334	513	393
	Average	177	352	168	368	1064	368	74	9	123
July	Percent	348	309	330	314	319	427	573	938	397
	Average	48	104	44	148	344	138	23	2	59
August	Percent	250	329	297	317	308	410	607	1283	380
	Average	12	18	9	43	83	40	6	1	24
September	Percent	203	57	238	228	187	281	350	1000	306
	Average	6	8	4	18	36	17	3	0	14
1968-69	Percent	209	213	245	250	229	277	330	404	366
Water Year	Average	1057	1741	897	1617	5312	1530	383	124	604

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1915 through September 1965.
(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS	<u>Date</u>
*B00525 Mustang Creek near Ballico	10-1-68
*B05518 Bear Creek at Merced I.D. West Boundary near Merced	10-1-68
*B05525 Bear Creek at McKee Road near Merced	10-1-68
*C00200 James Bypass near San Joaquin	10-1-68
DISCONTINUED STATIONS	
C03940 Rhodes-Fine Ditch near Porterville	9-30-69

* Publication of data only. Station previously installed.

TABLE B-4
DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

NOTE

A comprehensive alphabetical list of historical, as well as current, streamflow gaging stations is published in the Department of Water Resources pentannual report, "INDEX OF STREAM GAGING STATIONS IN AND ADJACENT TO CALIFORNIA", last published in September 1966.

The index contains the period of record--with number of years missing--and more information for 781 stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-4

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	104	81	56	37	7560	6390	6330	6150	8110	1940	1630	64	1
2	106	83	56	37	7790	6980	5430	7820	8580	1940	1650	54	2
3	106	84	56	38	7790	7050	4480	7000	9780	1940	1650	44	3
4	106	76	56	38	7860	7180	4100	6510	10800	1960	1650	4	4
5	106	71	47	40	7900	7430	4250	5090	11800	1960	1610	49	5
6	104	71	32	40	7650	7860	5120	3060	12400	1970	1630	47	6
7	104	65	32	41	7580	8120	5860	6430	12300	1780	1600	49	7
8	104	58	32	41	7680	8190	6200	7940	12300	1830	1300	40	8
9	97	58	32	41	7700	8210	6820	8140	12400	994	1000	46	9
10	93	54	33	42	7770	7610	6250	8090	12300	994	1000	46	10
11	84	47	32	42	7830	7790	5050	8090	11900	994	1000	52	11
12	81	48	32	42	7790	7990	4290	8020	10600	994	1060	83	12
13	83	48	32	65	7790	8010	4100	7980	9400	994	1060	83	13
14	69	50	34	111	7560	8150	4360	8020	8860	994	88	7	14
15	58	50	34	62	7410	8190	4840	8090	8860	1000	76	75	15
16	57	50	33	54	7360	8240	4800	8140	8860	1000	76	76	16
17	52	50	33	52	7310	8260	4290	8050	8860	822	80	80	17
18	48	50	33	69	7180	8280	3960	8020	8860	305	80	80	18
19	48	51	34	287	6790	8310	3780	8090	8360	151	80	80	19
20	48	51	34	201	6820	8330	3780	8090	7310	125	80	80	20
21	48	51	33	470	6660	8150	3790	8020	6170	123	76	80	21
22	48	51	33	267	6600	8260	3470	8070	5260	136	73	76	22
23	48	51	34	302	6680	8300	3100	8070	4010	160	73	76	23
24	51	51	35	1200	5510	8370	3100	8070	2260	208	76	76	24
25	58	51	37	3080	4510	8390	2960	8090	1900	262	78	76	25
26	63	51	38	3300	5420	8400	2560	8070	1910	245	68	76	26
27	69	51	37	3500	6090	7670	2750	8070	1910	205	52	75	27
28	74	52	37	5170	6220	6490	2870	8070	1920	165	52	73	28
29	83	54	37	6900	5990	5990	3730	8110	1930	163	54	73	29
30	83	54	37	6970	5960	5640	3730	8050	1930	163	54	73	30
31	81	37	37	7220	6300	6300	8120	8120	1630	163	54	73	31
MEAN	76.3	57.1	37.4	1283	7100	7705	4402	7594	7724	845	99.6	67.2	MEAN
MAX.	106	84	56	7220	7900	8400	6330	8140	12400	1970	165	83	MAX.
MIN.	48	47	32	37	4510	5960	2560	3060	1900	123	52	46	MIN.
AC.FT.	4690	3400	2300	78860	394300	473800	261900	466900	459600	51950	6120	4000	AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND W

MEAN		MAXIMUM					MINIMUM				TOTAL	
DISCHARGE	3050	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
		12400	11.69	6	15	00	32	1.70	12	6	00	220000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECDRD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 7-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME										
1969		C00200	JAMES BYPASS NEAR SAN JOAQUIN										
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	2761	3939	4749	4566	5180	4264	920		1
2				0	2955	4150	4760	4610	5170	4050	936		2
3				0	2965	4080	4770	4630	5200	3950	834		3
4				0	2970	4280	4780	4660	5250	3676	732		4
5				0	2970	4430	4800	4710	5340	3341	552		5
6				0	3008	4630	4860	4810	5530	2596	502		6
7				0	3040	4650	4910	4850	5570	2148	376		7
8				0	3190	4710	4820	4820	5530	1875	172		8
9				0	3260	4780	4870	4860	5550	1821	120		9
10				0	3270	4830	4850	4860	5570	1634	92		10
11				0	3235	4830	4820	4900	5570	1466	65		11
12	N		N	0	3234	4820	4820	4910	5540	1454	28	N	12
13	O	O	O	0	3370	4790	4800	4900	5540	1764	2	O	13
14				0	3370	4750	4770	4920	5520	1980	0		14
15				0	3320	4680	4750	4910	5490	2043	0		15
16	F		F	0	3355	4670	4670	4930	5470	2310	0	F	16
17	L	F	L	0	3385	4710	4620	4940	5420	2536	0	L	17
18	O	L	O	0	3390	4740	4610	4980	5370	2584	0	O	18
19	W	W	W	0	3380	4740	4590	4980	5370	2596	0	W	19
20				0	3425	4770	4600	4980	5310	2283	0		20
21				384	3445	4790	4570	4970	5250	2228	0		21
22				1957	3405	4800	4550	5000	5240	1917	0		22
23				1979	3432	4770	4490	4990	5230	1770	0		23
24				2163	3484	4720	4520	5040	5190	1635	0		24
25				531	3650	4710	4570	5070	5210	1468	0		25
26				456	3915	4700	4560	5110	5180	1389	0		26
27				2591	4025	4720	4530	5130	5170	1258	0		27
28				3401	3603	4720	4530	5130	5160	1233	0		28
29				1931		4720	4530	5140	5130	1251	0		29
30				1675		4750	4520	5150	5160	1338	0		30
31				2345		4770	4770	5140		1182	0		31
MEAN				626	3315	4650	4686	4923	5347	2156	172		MEAN
MAX.				3401	4025	4830	4910	5150	5570	4264	936		MAX.
MIN.				0	2761	3939	4490	4560	5130	1182	0		MIN.
AC FT.				38510	184090	285920	278860	302680	318170	132580	10570		AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 = - E AND *

MEAN		MAXIMUM				MINIMUM			TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2143	5600	12.22	6	7	0100			10	1	0000	1551360

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 39 06	120 10 45	SW 1 15S 16E				MAY 27-DATE					

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin.

James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions.

This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period are available from their office in Sacramento.

Altitude of gage is 165 feet from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY	
1	3945	3196	863	2566	1686	3127	1777	1411	1881	1933	4153	3235	1	
2	3950	3186	861	2523	1388	3421	1816	2170	1881	1929	4141	3185	2	
3	3951	3189	859	2541	2867	2908	1824	2180	1876	1961	4143	2733	3	
4	3940	3226	677	2579	2865	2923	1750	2178	1942	1959	4218	2377	4	
5	4419	3235	679	2578	2868	2895	1752	2177	1866	1954	4914	2404	5	
6	4887	3128	213	2644	2872	2890	1738	2243	1941	1881	4924	2283	6	
7	3908	2049	249	2866	2863	2882	1747	2316	1974	1044	4932	2076	7	
8	4408	2054	250	2875	3046	3078	1724	2952	1967	1161	4932	1985	8	
9	4406	3110	214	2869	3366	3377	1694	3009	3100	1682	1333	4928	1734	9
10	4412	3110	180	2866	2866	2869	1693	3120	1539	2263	4927	1733	10	
11	4421	3050	180	3067	2880	2865	1765	3122	1737	2726	4935	1733	11	
12	4435	2717	179	3376	2891	2863	2348	3128	1796	2965	4931	1730	12	
13	4906	2765	180	2859	2890	2868	2340	2827	1842	2900	4930	1737	13	
14	4426	2955	216	2862	2894	2862	2452	2032	1845	2455	4927	1736	14	
15	4413	2654	216	2858	3107	3053	2442	2070	1844	2453	4916	1736	15	
16	4402	2909	215	2831	3417	3228	2438	1997	1844	2443	4915	1800	16	
17	4409	2906	212	2841	2898	1307	2582	1890	1843	2354	4919	1951	17	
18	4029	3022	212	3036	2903	1283	2611	1897	1843	2354	4908	2085	18	
19	3152	3046	321	3364	2896	1285	2604	1897	1818	2350	4688	2092	19	
20	4137	2776	390	2864	2888	1385	2601	1825	1997	2349	4732	2038	20	
21	3144	935	888	2869	2888	1386	2354	1771	1995	2416	4481	2037	21	
22	2886	936	2517	2873	3397	1313	1887	1822	1964	3189	3619	2035	22	
23	1465	1077	1980	2876	3400	145	1888	1881	1934	3126	3922	1996	23	
24	1611	1079	2039	2874	2892	510	1624	1954	1932	3457	3904	2285	24	
25	2708	1077	2818	3090	2892	783	1192	1954	1979	3556	3908	2658	25	
26	3397	1173	2819	3408	2893	1887	1191	1951	1968	4244	3836	2726	26	
27	3792	a 1179	2810	2893	2898	1991	1170	1957	1997	4310	3669	2862	27	
28	3246	1107	3014	2910	2907	1745	1181	1858	1994	4245	3565	2796	28	
29	3443	1105	2883	2899	1748	1187	1861	1984	1984	4173	3440	2756	29	
30	3431	932	2543	2896	1749	1248	1867	1990	1990	4174	3057	2730	30	
31	3238		2584	2889	1750		1873			4126	2912		31	
MEAN	3784	2296	1105	2882	2997	2205	1887	2187	1890	2703	4365	2242	MEAN	
MAX	4906	3235	3014	3408	3417	3421	2611	3128	1997	4310	4935	3235	MAX	
MIN.	1465	932	179	2523	2863	145	1170	1411	1539	1044	2912	1730	MIN.	
AC.FT.	233010	136630	67960	177210	166450	135610	112160	134460	112450	166180	268420	133420	AC.FT.	

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *
 a - 23-HOUR DAY
 b - 23-HOUR DAY

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE	2547	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
												1843960

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT DNLT	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 47 45	121 35 05	SW 31 18 4E				JUN 51-DATE		1951		0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1807	444	175							0	1829	2144	1
2	1691	444	175							0	1828	2081	2
3	1709	444	175							0	1828	1860	3
4	1719	448	274							0	1887	1746	4
5	1719	417	0							0	2425	1740	5
6	1720	389	0							0	2680	1739	6
7	1703	415	0							0	2772	1738	7
8	1606	418	0							0	2506	1734	8
9	1558	350	0							0	2505	1585	9
10	1542	350	0							0	2505	1483	10
11	1470	350	0							583	2422	1421	11
12	1445	357	0	N	N	N	N	N	N	500	2528	1507	12
13	1427	385	0	O	O	O	O	O	O	425	2535	1359	13
14	1455	310	0							133	2565	1358	14
15	1336	336	0							0	2597	1469	15
16	1272	425	0	F	F	F	F	F	F	0	2597	1600	16
17	1255	425	0	L	L	L	L	L	L	0	2596	1737	17
18	1106	374	0	O	O	O	O	O	O	0	2600	1736	18
19	850	356	0	W	W	W	W	W	W	0	2602	1621	19
20	850	361	0							0	2476	1553	20
21	890	290	0							0	2339	1553	21
22	877	335	0							957	2310	1566	22
23	871	373	0							835	2315	1591	23
24	837	374	0							1084	2322	1748	24
25	866	378	0							1128	2375	1827	25
26	771 a	361	0							1667	2320	1897	26
27	773	302	0							1824	2249	1965	27
28	764	302	0							1824	2226	1966	28
29	724	300	0							1764	2192	2020	29
30	638	264	0							1735	2146	1972	30
31	459		0							1904	2145		31
MEAN	1216	369	25.8							528	2362	1711	MEAN
MAX.	1807	448	274							1904	2772	2144	MAX.
MIN.	459	264	0							0	1828	1358	MIN.
AC. FT.	74860	21970	1580							32460	145230	101820	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *
a - 25-HOUR DAY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET		
522	DISCHARGE	DATE	HT.	MO.	DAY	TIME	DISCHARGE	DATE	HT.	MO.	DAY	TIME	377920

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD				DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM		
			CFS	GAGE HT.	DATE	FROM			TO					
36 47 11	120 23 05	NW 19 13S 15E												
Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.3 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.														

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	210	101	90	21	4074	4187	4391	3776	4338	3579	481	308	1
2	188	100	90	18	4570	4435	4180	3615	4375	3368	470	325	2
3	174	96	90	16	4800	4641	4158	3558	4422	3154	452	288	3
4	156	95	90	15	4880	4720	3948	3753	4705	3252	457	237	4
5	144	86	90	12	4880	4904	3893	3774	4912	3111	452	330	5
6	149	75	89	10	4832	4984	4158	3809	5104	2653	439	331	6
7	152	70	88	7	4832	5136	4428	4178	5554	2128	459	326	7
8	150	76	84	4	4904	5264	4390	4158	5752	1585	446	322	8
9	152	83	82	2	4976	5344	4405	4188	5760	1398	425	309	9
10	154	82	80	0	5072	5424	4585	4218	5912	1225	418	302	10
11	154	79	78	0	5104	5440	4622	4210	6080	1034	416	304	11
12	152	79	74 E	0	5112	5416	4570	4218	6240	707	422	305	12
13	154	77	71 E	0	5160	5336	4465	4202	6320	698	423	301	13
14	152	76	68 E	4	5216	5264	4367	4142	6344	722	421	300	14
15	156	73	64 E	6	5088	5280	4263	4038	6320	695	417	301	15
16	161	71	60 E	12	4856	5304	4225	3970	6304	668	414	302	16
17	166	71	57 E	16	4784	5328	4120	3992	6232	692	412	308	17
18	172	69	54 E	19	4832	5368	3928	3985	6128	788	408	312	18
19	168	73	50 E	20	4896	5416	3753	4068	5968	857	392	314	19
20	168	92	46 E	20	4968	5424	3683	4158	5816	755	384	313	20
21	167	96	43 E	31	4928	5440	3669	4120	5168	602	384	313	21
22	167	95	40 E	688	4832	5364	3613	4075	4385	580	382	312	22
23	166	94	36 E	1900	4800	5128	3522	4045	4150	568	371	314	23
24	164	92	32 E	2722	4844	5160	3445	4008	3877	540	368	322	24
25	164	92	29 E	2270	4984	5256	3452	4090	3788	528	366	331	25
26	162	92	26 E	1112	5350	5022	3480	4210	3711	508	366	332	26
27	161	92	22 E	1144	4784	4895	3452	4278	3697	500	366	332	27
28	161	92	18 E	2516	4592	4269	3389	4352	3690	502	360	331	28
29	161	92	15 E	3965	4864	3312	4338	3669	4008	502	332	330	29
30	160	92	12 E	3571	4800	3501	4308	3648	4008	483	305	285	30
31	134		8 E	3669	4744		4322		4218	479	304		31
MEAN	161	85	57 E	767	4891	5105	4070	5079	1254	404	404	311	MEAN
MAX.	210	101	90	3965	5350	5440	4622	4352	6344	3579	481	332	MAX.
MIN.	134	69	8 E	0	4074	4187	3312	3558	3648	479	304	237	MIN.
AC.FT.	9920	5060	3520E	47190	271640	313880	236760	250230	302220	77080	24820	18530	AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
2156	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	1560850
	6360	14.75	6	14	1700	0		1	10	0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATION OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FRDW	TO		
36 48 37	120 22 35	SW 7 13S 15E	11740a 8840	13.75	6-20-41 6-- 1-52	OCT 39-DATE		1939 1954	1953	142.53 140.53	USBR USBR

Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	3780	4570	4262	3017	3720	3044			1
2				0	4318	4410	3790	3170	3720	2970			2
3				0	4720	4810	3690	3020	3710	2700			3
4				0	4910	4870	3600	3080	3820	2592			4
5				0	4960	5010	3340	3170	4130	2709			5
6				0	4990	5110	3590	3190	4280	2241			6
7				0	4960	5190	3830	3360	4720	1552			7
8				0	4980	5320	4030	3650	5220	1050			8
9				0	5040	5430	3870	3590	5370	574			9
10				0	5080	5520	4030	3630	5484	525			10
11				0	5100	5540	4140	3640	5550	288			11
12	N	N	N	0	5109	5540	4158	3620	5640	235	N	N	12
13	O	O	O	0	5150	5500	4050	3650	5750	176	O	O	13
14				0	5170	5330	3970	3640	5820	166			14
15				0	5200	5300	3810	3590	5870	152			15
16	F	F	F	0	4970	5310	3720	3420	5890	120	F	F	16
17	L	L	L	0	4820	5290	3670	3420	5830	80	L	L	17
18	O	O	O	0	4830	5280	3520	3440	5770	126	O	O	18
19	W	W	W	0	4840	5280	3290	3450	5690	250	W	W	19
20				0	4880	5290	3140	3600	5540	278			20
21				0	4900	5300	3080	3630	5313	128			21
22				34	4880	5310	3060	3570	4390	51			22
23				728	4830	5380	2990	3550	3823	37			23
24				1741	4850	5290	2871	3470	3615	19			24
25				2476	4910	5340	2835	3510	3280	16			25
26				1780	5300	5360	2844	3600	3222	5			26
27				957	5230	4940	2862	3700	3162	0			27
28				1385	4900	4690	2790	3740	3150	0			28
29				3072		4570	2700	3780	3130	0			29
30				3770		4450	2736	3750	3080	0			30
31				3510		4430		3730		0			31
MEAN				628	4915	5128	3476	3496	4590	712			MEAN
MAX.				3770	5300	5540	4262	3780	5890	3044			MAX.
MIN.				0	3780	4410	2700	3017	3080	0			MIN.
AC. FT.				38590	272940	315300	206820	214970	273110	43800			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1886		5560	10.42	3	11	2300	0		10	1	0000	1365530

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
36 59 38	120 30 02	N 1/2 12 11S 13E	8920a 8200	10.52b	6-24-41 6-5-52	OCT 40-DATE			1940		116.5	USED

Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.
b Gage height at site and datum then in use.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	867920	BIG CREEK DIVERSION NEAR FISH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.6	3.0	5.3	36	5.7	4.2	7.0	4.6	45	45	8.3	5.2	1
2	2.8	3.0	5.0	35	6.8	4.3	6.8	4.6	45	45	8.3	5.0	2
3	2.8	3.0	6.3	35	4.6	4.3	6.6	4.6	45	44	7.6	5.0	3
4	2.8	2.9	6.1	26	4.6	4.2	6.3	4.6	45	43	7.6	5.0	4
5	2.9	2.8	6.8	7.6	8.8	4.3	6.1	4.6	45	42	7.2	5.0	5
6	2.8	4.5	7.0	8.1	23	39	6.1	4.6	45	40	7.0	4.8	6
7	2.8	4.8	5.9	8.6	25	26	6.1	34	45	39	7.0	5.9	7
8	2.9	4.6	7.2	8.6	27	24	5.9	44	44	38	6.8	5.2	8
9	2.8	4.8	5.0	8.1	19	23	5.7	44	45	36	6.6	5.0	9
10	2.8	4.6	6.6	8.6	5.7	23	5.7	45	43	35	6.6	5.0	10
11	2.8	4.6	8.3	8.1	5.7	15	5.7	45	47	33	6.6	5.0	11
12	3.0	7.6	9.8	8.1	5.7	13	5.5	46	48	32	6.1	5.0	12
13	3.4	6.1	14	24	6.6	12	5.5	46	49	33	6.1	4.8	12
14	3.0	5.5	15	29	5.9	8.3	5.5	47	49	32	5.9	4.8	14
15	3.0	6.3	27	27	7.0	4.3	5.3	47	51	28	5.5	4.8	15
16	3.0	6.3	11	23	8.1	4.5	5.2	44	52	25	5.5	4.6	16
17	3.0	6.1	11	16	7.0	5.0	5.2	45	52	24	6.1	4.6	17
18	3.0	7.2	11	24	6.6	5.7	5.0	47	51	22	5.9	4.6	18
19	3.0	7.0	20	23	6.6	5.9	5.0	35	50	20	5.5	4.6	19
20	3.0	6.6	17	9.3	6.6	7.0	4.8	7.4	50	18	5.5	4.8	20
21	3.0	6.1	26	8.8	7.4	18	4.6	31	50	15	5.9	5.0	21
22	3.0	5.9	35	7.0	6.6	6.6	4.6	45	49	14	5.9	5.0	22
23	3.0	5.7	35	6.8	6.8	6.6	4.6	45	49	13	5.7	4.6	23
24	3.0	5.9	37	6.6	21	6.6	4.6	45	49	12	5.5	4.8	24
25	3.0	5.5	36	8.1	23	6.6	4.6	45	48	11	5.5	4.6	25
26	3.0	5.5	40	7.6	27	6.6	4.6	45	47	11	5.5	4.5	26
27	3.0	5.2	36	6.3	35	6.6	4.6	45	47	11	5.5	4.3	27
28	3.0	5.0	39	17	41	6.8	4.6	45	46	11	5.5	4.1	28
29	3.0	5.0	39	27	6.8	4.6	4.6	45	46	10	5.3	4.1	29
30	3.0	5.0	38	21	7.0	7.0	4.6	45	46	9.3	5.2	4.1	30
31	3.0		37	16	7.0	7.0	4.6	45	45	8.8	5.0		31
MEAN	2.9	5.2	19.5	16.3	13.1	16.6	5.4	35.0	47.4	25.8	6.2	4.8	MEAN
MAX.	3.4	7.6	40	36	41	43	7.0	47	52	45	8.3	5.9	MAX.
MIN.	2.6	2.8	5.0	6.3	4.6	4.3	4.6	4.6	43	8.8	5.0	4.1	MIN.
AC FT.	181	310	1197	1002	726	1019	319	2152	2622	1585	382	286	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
16.5	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	11980
		3.58	6	15	2100						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T & R M.O.B. &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 28 10	119 36 52	NE25 S5 21E		3.58	1-30-63	DEC 58-DATE			1958		0.00	LOCAL

Station located 195 feet upstream from road culvert, 1.4 miles southeast of Fish Camp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at time affected by ice and extreme high flows affected by 36-inch culvert pipe below station. Altitude of gage is approximately 5,400 feet (from topographic map). Records furnished by Madera Irrigation District.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	867325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.5	8.0	16	32	124	166	179	143	126	111	38	17	1
2	3.2	9.6	13	32	117	154	183	139	124	109	37	17	2
3	3.1*	35	14	31	114	162	196	135	123	107	35	17	3
4	3.3	12	13	34	110	146	165	132	121	105	33	16	4
5	3.7	8.0	13	35	144	139	303	130	120	103	29	16	5
6	4.5	7.3	13	36	154	139	274	133	118	102	29	16	6
7	4.8	10	13	36	104	127	207	153	117	100	28	19	7
8	4.9	10	13	34	116	120	187	174	119	97	27	17	8
9	4.8	9.7	12	32	111	117	191	176	167	95	26	16	9
10	4.5	9.5	15	28	107	127	188	175	144	91	27	16	10
11	4.5	9.2	48	27	107	118	188	172	134	89	29	16	11
12	6.1	21	21	28	147	114	191	170	135	85	28	16	12
13	13	17	20	150	124	110	188	163	131	86	25	15	13
14	13	13	30	176	116	105	180	160	127	84	26	15	14
15	6.1	24	92	97	196	107	166	155	129	78	27	15	15
16	5.3	19	73	72	160	112	161	150	135	73	27	15	16
17	5.1	16	33	56	137	122	167	148	131	70	29	15	17
18	4.8	17	25	145	151	132	169	146	126	66	28	15	18
19	5.0	18	25	998	146	132	164	129	125	63	26	15	19
20	5.0	15	17	353	133	129	171	71	120	60	26	15	20
21	5.0	14	24	904	126	161	177	80	121	57	24	16	21
22	4.8	13	28	285	119	136	174	136	121	54	23	15	22
23	4.9	13	25	154	126	139	192	136	119	53	23	13	23
24	4.9	14	62	178	347	144	172	144	117	50	22	13	24
25	5.1	15	99	947	254	146	155	142	116	49	22	13	25
26	5.4	13	58	740	192	152	151	141	114	47	22	12	26
27	5.7	14	39	314	145	159	148	139	113	47	21	12	27
28	6.0	13	46	218	167	167	148	137	114	48	20	12	28
29	6.6	12	39	171	171	176	150	134	114	43	19	13	29
30	13	13	34	150	185	148	130	112	112	41	19	13	30
31	8.8		32	129	191		127			39	18		31
MEAN	5.7	14.1	32.4	214	146	140	181	142	124	74.3	26.2	15.0	MEAN
MAX.	13	35	99	998	347	391	303	176	167	111	38	19	MAX.
MIN.	2.5	7.3	12	27	104	105	148	71	112	39	18	12	MIN.
AC. FT.	352	838	1993	13140	8120	8596	10780	8727	7404	4566	1613	895	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN	DISCHARGE	MAXIMUM			MINIMUM			TOTAL			
92.6	1670	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
		4.66	1	19	0915	2.1	0.88	10	1	0000	67010

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DAT#		1961		0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,520 feet (from topographic map). Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion shown on preceding table.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1969	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5	1.2	2.1	5.9	39 E	31	55	48	19	12	6.1	3.7	1
2	0.6*	1.5	2.0	5.8	35 E	28	53	46	19	11	6.1	3.6	2
3	0.6	1.1	1.9*	5.9	32 E	27	56	44	18	11	5.8	3.5	3
4	0.6	4.1	1.8	6.3	28 #	26	49	42	17	11	5.6	4.3*	4
5	0.6	2.3	2.1	6.4	29	25	89	42	17	11	5.4*	3.5	5
6	0.6	1.8	2.1	6.4*	30	26	78	44	17	11	5.3	3.5	6
7	0.6	1.6*	2.1	6.3	27	24	59	45	17	11	5.2	3.5	7
8	0.7	1.5	2.1	5.9	26	23	53	45	17	10	5.1	3.5	8
9	0.7	1.5	1.8	5.4	25	23	54	46	26	10	5.0	3.3	9
10	0.6	1.5	2.4	4.9	24	23	56	45	27	9.7	5.1	3.4E	10
11	0.6	1.5	8.8	4.6	25	21	57	44	22	9.4	5.1	3.4E	11
12	0.8	3.6	4.5	4.5	40	21	58	47	20	9.1	4.9	3.4E	12
13	2.0	2.9	3.4	64	33	20	57	42	19	8.7	4.8	3.4E	13
14	3.2	2.3	6.0	59	29	21	53	39	18	8.9	4.6	3.4E	14
15	1.4	4.2*	28	21	49	22	48	37	17	8.6	4.5	3.3E	15
16	1.2	3.1	21 *	13	40	25	48	35	17	8.4	4.5	3.3E	16
17	1.1	2.7	8.1	10	33	30	51	34	17	8.2	4.6	3.3E	17
18	1.0	2.7	5.8	54	32	36	53	33	16	8.1	4.5	3.2E	18
19	1.0	2.8	5.1	36.3	30	36	52	32	16	8.1	4.4	3.1E	19
20	1.0	2.6	4.6	123	27	35	54	30	15	7.9	4.4	3.2	20
21	1.0	2.3	6.0	319 *	26	38	57	29	15	7.8	4.3	3.3	21
22	1.0	2.1	4.1	106	25	36	57	28	14	7.6	4.2	3.1	22
23	0.9	2.0	3.9	48	24	41	64	27	14	7.4	4.2	2.9	23
24	0.9	2.2	12	53	49	44	55	26	13	7.3	4.2	2.9	24
25	0.9	2.2	31	338	43	45	49	25	13	7.3	4.3	2.9	25
26	0.9	1.9	15	205	34	48	48	24	13	7.2	4.0	2.9	26
27	0.9	1.8	8.9	81	30	50	48	24	13	7.5	4.1	2.7	27
28	0.8	1.7	8.5	56 E	31	53	48	23	13	7.3	4.0	2.7	28
29	0.9	1.6	7.5	51 E		55	50	22	12	6.7	4.0	2.7	29
30	1.8	1.6	6.6	47 E		56	50	21	12	6.5	3.9	2.7	30
31	1.4		6.1	42 E		58		20		6.2	3.8		31
MEAN	1.0	2.5	7.3	68.4	32.0	33.8	55.3	35.1	16.8	8.8	4.7	3.3E	MEAN
MAX.	3.2	11	31	363	49	58	89	48	27	12	6.1	4.3	MAX.
MIN.	0.5	1.2	1.8	4.5	24	20	48	20	12	6.2	3.8	2.7	MIN.
AC FT.	61	150	447	4208	1775	2077	3291	2160	998	539	290	194E	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
22.4	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	16190
	610	8.17	1	19	0830	0.5	2.46	10	1	0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECD		DATUM OF GAGE			
LATITUDE	LDHGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959		0.00	LOCAL
Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	15	700	2500	385	60	143		0	0	1
2			0	5	695	1775	370	40	135		0	0	2
3			0	0	625	1675	625	25	148		0	0	3
4			0	0	580	1400	625	24	143		0	0	4
5			0	0	625	1198	485	15	133		0	0	5
6			0	0	1425	1055	2215	10	100		0	0	6
7			0	4	1500	981	1287	4	60		0	0	7
8			0	3.5	950	881	815	4	69		0	0	8
9			0	3	750	798	680	15	90		0	0	9
10			0	1	645	1198	625	20	185		0	0	10
11			0	0	575	1070	590	25	270		0	0	11
12			0	0	625	858	530	35	185		0	0	12
13	N	N	0	0	825	887	510	30	30	O	0	27	13
14			0	225	645	741	510	25	25		0	40	14
15			0	725	655	670	480	15	10		0	44	15
16	F	F	0	375	1475	625	390	0	8	F	0	44	16
17	L	L	0	250	900	575	315	0	0	L	0	40	17
18	O	O	0	200	875	590	330	0	0	O	0	40	18
19	W	W	0	1800	1450	590	297	0	0	W	0	10	19
20			0	2725	1425	585	295	0	0		0	0	20
21			0	4000	1450	890	290	200	0		0	0	21
22			0	3750	1455	860	270	255	0		0	0	22
23			0	1500	1900	635	250	277	0		0	0	23
24			0	675	4675	590	230	415	0		50	0	24
25			0	3900	8500	555	215	560	0		75	0	25
26			0	4400	5000	512	198	580	0		80	0	26
27			0	2425	2200	485	178	630	0		20	0	27
28			55	1625	1700	475	155	630	0		0	0	28
29			57	1400		460	120	480	0		0	0	29
30			40	1000		440	120	350	0		0	0	30
31			25	900		430		400			0	0	31
MEAN			5.7	1029	1600	870	480	159	57.8		7.3	8.2	MEAN
MAX.			57	4400	8500	2500	2215	630	270		80	44	MAX.
MIN.			0	0	575	430	120	0	0		0	0	MIN.
AC FT.			351	63290	88910	53520	28530	9767	3439		450	486	AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # — E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
344		12100	13.10	2	25	0600	0		10	1	0000	248700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 58 30	120 12 12	NE 15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936		0.00	LOCAL

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		38.0	0.6	7.3	8E	350	65	39	9.1	3.3	0.3	0.0	1
2		3.0	0.8	6.4	78	239	70	38	9.1	2.9*	0.3	0.0	2
3		0.4	0.7	6.1*	71	241	102	37	9.1	2.7	0.3	0.1*	3
4		0.1	0.6*	5.3	64	182	70	37	8.8*	2.6	0.2*	0.0	4
5		0.0	0.5	4.8	168	163	253	35	8.3	2.3	0.2	0.0	5
6		0.0*	0.4	4.2	311	153	174	34	8.0	2.2	0.2	0.0	6
7		0.0	0.4	3.9	143	139	113	33	7.8	2.2	0.2	0.0	7
8		0.0	0.4	3.6	105	128	95	31	8.0	2.1	0.2	0.0	8
9		0.0	0.4	3.5	90	125	87	28	9.4	2.0	0.2	0.0	9
10		0.0	0.6	3.2	83	165	84	26	12	1.8	0.3	0.0	10
11		0.0	3.6	3.1	82	165	78	25	11	1.8	0.2	0.0	11
12		0.2	1.8	3.1	147	149	74	21	10	1.7	0.3	0.0	12
13	N	0.1	1.1	216	102	134	72	20	9.6	1.7	0.7	0.0	13
14	O	0.2	2.2	164*	91	118	70	20	8.0	1.6	0.7	0.3	14
15		1.7*	52	37	257	112	66	20	7.5	1.3	0.6	0.3	15
16	F	0.5	57	21	153	107	63	19	7.3	1.3	0.6	0.3	16
17	L	0.3	7.0*	14	115	110	62	18	8.8	1.2	0.6	0.0	17
18	O	0.2	3.2	317	192	112	60	17	7.5	1.0	0.4	0.0	18
19	W	0.2	3.6	1480	208	109	57	16	7.0	1.0	0.1	0.0	19
20		0.2	2.7	363	143	113	55	16	6.4	0.8	0.1	0.0	20
21		0.2	1.8	1530	132	193	52*	15	5.9	0.8	0.1	0.0	21
22		0.2	1.4	246	127	118	50	14	5.5	0.7	0.1	0.0	22
23		0.2	1.4	112	213	105	74	14	5.3	0.6	0.1	0.0	23
24		0.3	6.8	163	1330	100	68	13	5.1	0.6	0.1	0.0	24
25		0.4	126	1720*	435	92	53	12	4.8	0.6	0.1	0.0	25
26		0.4	54*	623	429	87	49	12	4.6	0.6	0.0	0.0	26
27		0.4	19	201	239	84	46	12	4.4	0.6	0.0	0.0	27
28		0.3	26	155	280	80	44	12	4.2	0.6	0.0	0.0	28
29		0.3	25	112	75	42	12	12	3.9	0.5	0.0	0.0	29
30		0.3	14	100	71	40	11	11	3.8	0.4	0.0	0.0	30
31			9.1	86	68	68	10	10	0.4	0.4	0.0	0.0	31
MEAN		0.2	13.7	249	210	135	76.3	21.5	7.3	1.4	0.2	0.0	MEAN
MAX.		1.7	126	1720	1332	350	253	39	12	3.3	0.7	0.3	MAX.
MIN.		0.0	0.4	3.1	64	68	40	10	3.8	0.4	0.0	0.0	MIN.
AC.FT.		14	841	15300	11650	8305	4538	1323	437	87	14	2	AC.FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRES FEET
58.7	4350E 8.93 1 25 0750	0.0	42510

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LDNGITUDE	1/4 SEC T & R M D B & M	OF RECDRD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957		0.00	LOCAL

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map).

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

INSUFFICIENT DATA TO PUBLISH DAILY FLOWS

E - ESTIMATED
NR - NO RECORD
o - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	GAGE HT.	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
13760	586.44	2	24	1930	0.0		10	1	0.00			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
37 15 36	119 56 42	SE 1 8S 18E	13760	586.44	2-24-69	NOV 59-DATE		1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Discharge measurements and partial flow records are available in DWR files. Drainage area is 201. square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	14	10800	14330	11300	5160	10300	4010	1.0		1
2			0.0	8.6	10900	14300	10400	7870	10300	3580	1.4		2
3			0.0	4.7	11200	13800	11100	9290	10300	3080	1.1		3
4			0.0	2.1	11400	14300	9830	9300	11600	2530	1.1		4
5			0.0	0.6	11300	13500	8850	9130	11300	2170	1.1		5
6			0.0	0.0	11700	12800	9620	8580	12300	1750	1.1		6
7			0.0	0.0*	13200	13100	11800	6860	13400	1260	1.1		7
8			0.0	0.0	12800	13400	11400	5940	14200	1070	1.1		8
9			0.0	0.0	11900	13600	11000	8370	14300	920	1.1		9
10			0.0	0.0	11600	13900	10900	9640	14500	731	1.1		10
11			0.0	0.0	11500	15100	11500	9940	14600	554	1.0		11
12	N	N	0.0	0.0	11500	14400	10900	9880	14600	378	1.1	N	12
13	O	O	0.0*	0.0	11700	14200	9660	9880	14100	253	1.1		13
14			0.0	3.9	11600	14100	8790	8790	13000	162	1.1		14
15			0.0	1250 *	11600	13700	8450	9840	12000	93	1.1		15
16	F	F	0.0	856 *	12200	13600	8530	9720	11700	66	1.1	F	16
17	L	L	0.0	455	12900	13600	8760	9770	11600	61	1.1	L	17
18	O	O	0.0	306	12900	13600	8490	9830	11500	34	1.1	O	18
19	W	W	0.0	334	13800 *	13700	7930	9720	11500	56	1.1	W	19
20			8.3	3900	14200	13900	7480	9850	1300	129	1.1		20
21			44	3390	13400	13900	7160	9960	10900	146	1.0		21
22			47	6390 *	13200	14700	7120	9980	9980	87	1.0		22
23			47	4630	12700	14200	6890	9960	8730	46	1.0		23
24			50	3900	14900	14000	6440	10000	7750	35	1.1		24
25			53	4930	20100	14000 *	6240	10100	6300	31	1.0		25
26			54	9240 *	18900 *	14100	6220	10300	5000	27	1.0		26
27			46	9260	16500	13400	6170	10400	4290	22	1.0		27
28			40	8960	14800	12900	5580	10500	4120	15	1.0		28
29			34	8670	11800	5320	4740	10500	4070	9.6	1.0		29
30			26	9790	10600	4740	10400	10500	4030	4.6	1.0		30
31			19	11100 *	10400	10400	10400	10400	4030	1.5	1.1		31
MEAN			15.1	2819	13040	13580	8552	9377	10420	752	0.1		MEAN
MAX.			54	11100	20100	15100	11800	10500	14600	4010	1.4		MAX.
MIN.			0.0	0.0	10800	10400	4740	5160	4030	1.5	0.0		MIN.
AC FT.			927	173300	724400	834800	508900	576600	620000	46250	5		AC FT.

E -- ESTIMATED

NR -- NO RECORD

* -- DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

-- E AND *

MEAN	MAXIMUM			MINIMUM			TOTAL				
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
4814	21700	17.58	2	25	1430	400	10	1	6000		3475000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	862400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	2.4	22	139	838	46	30 E	7.8	2.8			1
2		0.0	3.5	18	132	507	42	30 E	7.6	2.4*			2
3		0.0	2.8	16	111	408	80	30 E	7.8	2.0			3
4		0.0	2.1*	14	102	307	55	30 E	7.3*	1.8			4
5		0.0	2.4	12	332	246	492	30 E	6.8	1.8			5
6		0.0*	2.2	11	787	198	442	32 E	6.6	1.6			6
7		0.0	2.2	10	424	170	217	23 #	6.6	1.6			7
8		0.0	2.1	9.5	242	145	144	22 E	6.6	1.4			8
9		0.0	2.1	8.9	173	129	102	21 E	7.3	1.3			9
10		0.0	2.9	8.9	135	206	87	20 E	8.6	1.2			10
11		0.0	21	8.6	114	198	98	19 E	8.4	1.2			11
12	N	0.0	12	7.8	153	180	89	18 E	8.4	0.9	N	N	12
13	O	2.4	7.3	889	125	189	69	18 #	7.3	0.9	O	O	13
14		2.1	8.9	696 *	105	156	63	17 E	6.6	0.9			14
15		11 *	83	136	395	139	57	16 E	5.7	1.2			15
16	F	7.1	128	74	318	122	54	16 E	5.1	0.9	F	F	16
17	L	3.7	26 *	52	194	111	50	15	5.1	0.6	L	L	17
18	O	2.6	14	653	345	102	47	14	5.1	0.5	O	O	18
19	W	2.0	13	2650 *	444	93	43	14	4.7	0.2	W	W	19
20		1.8	13	615	324	89	40	13	4.5	0.3			20
21		1.5	9.5	2980	254	283	39	13	4.0	0.2			21
22		1.4	8.1	521	225	158	37	12	4.0	0.2			22
23		1.4	7.1	216	628	117	42	11	3.8	0.2			23
24		1.5	9.5	187	3510	101	51	11	3.5	0.1			24
25		1.6	272	2140	1170	89	37	10	3.4	0.1			25
26		1.5	191 *	1030	1020	79	34	10	3.5	0.1			26
27		1.4	80	397	530	73	32	9.8	3.4	0.1			27
28		1.3	74	307	536	67	31	9.5	3.2	0.1			28
29		1.2	61	242	61	30	30	9.2	3.0	0.1			29
30		1.3	41	191	56	29 E	29 E	8.9	2.9	0.0			30
31			28	161	53			8.4		0.0			31
MEAN		1.6	37.2	461	463	183	89.3	17.4E	5.6	0.9			MEAN
MAX		11	272	2980	3510	838	492	30 E	8.6	2.8			MAX
MIN.		0.0	2.0	7.8	102	53	29 E	8.4	2.9	0.0			MIN.
AC FT.		93	2285	28330	25720	11250	5314	1073E	334	53			AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND W

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
103	7460E	11.63	2	24	1320	0.0		10	1	0000	74450

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 55	120 00 10	NE 21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles (revised). Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	31	923	986	78	35	11	2.9			1
2			0	26	867	979	72	33	10	3.0			2
3			0	22	808	958	125	30	10	3.0			3
4			0	19	723	930	104	32	9.2	2.8			4
5			0	17	621	895	192	32	8.4	2.7			5
6			0	16	615	847	567	31	7.8	2.5			6
7			0	14	663	802	533	36	7.6	2.4			7
8			0	13	609	735	385	31	7.6	2.3			8
9			0	13	506	651	239	25	7.6	2.2			9
10			0	12	326	555	161	24	8.0	2.1			10
11			0	11	207	450	140	22	8.8	2.0			11
12	N	N	0	11	191	318	152	21	8.8	2.0	N	N	12
13	O	O	0	146	204	270	113	20	8.4	2.0	O	O	13
14			0	750	161	235	104	20	7.6	2.0			14
15			0	701	257	200	96	19	7.0	1.9			15
16	F	F	40	562	475	182	90	19	6.4	1.9	F	F	16
17	L	L	53	326	385	164	82	18	5.6	1.8	L	L	17
18	O	O	27	135	406	152	74	17	5.2	1.7	O	O	18
19	W	W	18	770	522	140	68	17	5.0	1.5	W	W	19
20			12	920	539	137	64	17	4.8	1.4			20
21			11	1110	485	290	60	16	4.4	1.2			21
22			10	1070	390	286	56	16	4.2	0.8			22
23			8.6	1020	455	197	52	15	3.9	0.2			23
24			8.6	970	791	161	72	15	3.7	0			24
25			13	1050	982	143	64	14	3.6	0			25
26			335	1100	1000	125	50	14	3.4	0			26
27			265	1070	1000	116	46	14	3.3	0			27
28			109	1060	995	106	43	14	3.2	0			28
29			122	1050	100	100	40	13	3.1	0			29
30			93	1020	92	36	13	13	3.0	0			30
31			47	986	86	86	12	12	0	0			31
MEAN			36.6	517	575	396	132	21.1	6.4	1.5			MEAN
MAX.			335	1110	1000	986	567	36	11	3.0			MAX.
MIN.			0.0	11	161	86	36	12	3.0	0.0			MIN.
AC.FT.			2250	31780	31950	24370	7850	1300	378	92			AC.FT.

E - ESTIMATED
 N# - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL			
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
138		1680		1	21		0.0		10	1	0000	99970	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	80617A	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			1.2	2	155	156	23	9	3	1	1	2	1
2			0.3	2	145	156	26	9	2	1	1	1	2
3			0.0	2	143	153	35	9	2	1	1	1	3
4			0.0	2	134	155	16	11	2	1	1	1	4
5			0.0	1	128	148	42	11	2	0.5	1	2	5
6			0.0	1	120	143	97	9	2	0.5	1	1	6
7			0.0	1	118	134	89	8	2	0.5	1	2	7
8			0.0	1	110	126	74	8	2	0.5	1	2	8
9			0.0	1	97	115	33	8	2	0.5	1	2	9
10			7.1	1	76	112	25	8	3	0.5	1	2	10
11			0.2	1	35	100	23	7	3	0.5	1	2	11
12	N	N	0.1	1	42	84	21	7	3	0.5	1	2	12
12	O	O	0.3	60	38	94	18	6	3	0.5	1	2	12
14			0.4	140	37	35	17	6	2	0.5	1	1	14
15			0.4	132	61	32	16	6	2	0.5	1	2	15
16	F	F	0.4	118	71	31	14	6	2	0.5	1	2	16
17	L	L	0.7	104	45	28	14	5	2	0.5	1	2	17
18	O	O	0.6	77	79	24	13	5	2	0.5	1	2	18
19	W	W	0.5	117	95	34	12	4	2	0.5	1	2	19
20			0.5	128	91	38	12	4	2	0.5	1	2	20
21			0.5	160	82	76	12	4	2	0.5	1	2	21
22			0.5	172	69	51	11	4	2	0.5	1	1	22
23			0.5	167	84	33	12	4	2	0.5	1	1	23
24			0.5	162	126	31	14	3	2	0.5	1	1	24
25			14	167	150	30	11	3	2	0.5	1	1	25
26			51	174	156	27	10	3	1	0.5	1	2	26
27			9.2	172	155	25	10	3	1	0.5	1	2	27
28			4.2	169	154	23	10	3	1	0.5	1	1	28
29			3.2	167	22	10	3	1	1	0.5	2	1	29
30			2.5	164	22	9	3	1	1	1	2	1	30
31			2.1	160	23	3	3	1	1	1	2	1	31
MEAN			3.0	87.9	99.8	108	24.3	5.8	2.0	0.6	1.1	1.6	MEAN
MAX			51	174	156	156	97	11	3	1	2	2	MAX
MIN			0.0	1	35	22	9	3	1	0.5	1	1	MIN
AC FT.			183	5410	5550	8620	1410	359	119	36	67	97	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 = - END *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
27.5	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
								10	1	000	19880

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD				DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE	FROM			TO				
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 30-DATE			1950		338.22	MSCGS	

Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B55400	BEAR CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.4	9.8	65	376	12	5.2	0.7	0.1			1
2		0.0	0.5	7.8	58	153	12	4.8	0.7	0.1*			2
3		0.0	0.7	6.5*	42	123	27	5.0	0.7	0.1			3
4		0.0	0.7*	5.5	33	75	17	7.2	0.7*	0.1			4
5		0.0	0.6	4.6	139	53	475	5.7	0.7	0.1			5
6		0.0	0.5	3.9	493	40	329	5.0	0.6	0.1			6
7		0.0*	0.4	3.4	196	33	125	4.6*	0.6	0.1			7
8		0.0	0.4	3.0	87	2	137	4.2	0.6	0.1			8
9		0.0	0.4	2.7	55	37	42	3.6	0.6	0.1			9
10		0.0	0.6	2.4	40	135	32	3.2	0.6	0.1			10
11		0.0	7.1	2.3	32	98	26	2.8	0.6	0.1			11
12	N	0.0	7.8	2.2	46	70	21	2.6	0.6	0.1	N	N	12
13	O	0.0	4.3	518 *	37	65	18	2.3*	0.5	0.1	O	O	13
14		0.0	5.2	419 *	31	47	16	2.0	0.4	0.0			14
15		0.0*	93	111	198	38	14	2.0	0.4	0.0			15
16	F	0.0	97	47	185	32	13	1.8	0.4	0.0	F	F	16
17	L	0.0	14 *	28	81	29	12	1.8	0.4	0.0*	L	L	17
18	O	0.0	8.4	194	310	25	10	1.7	0.4	0.0	O	O	18
19	W	0.0	7.1	1110 *	289	22	9.5	1.5	0.3	0.0	W	W	19
20		0.0	7.8	325	149 *	32	8.9	1.4	0.3	0.0			20
21		0.3	6.0	1790 *	97	293	8.3	1.3	0.3	0.0			21
22		0.4	4.8	264	73	80	7.7	1.2	0.3	0.0			22
23		0.4	3.7	87	354	50	9.5	1.1	0.3	0.0			23
24		0.4	6.6	79	1410	37	15	1.1	0.2	0.0			24
25		0.4	233	1250 *	389	29	9.2	1.0	0.2	0.0			25
26		0.4	202 *	529	320	24	8.0	1.0	0.2	0.0			26
27		0.4	87	170	249	22	7.4	1.0	0.2	0.0			27
28		0.3	89	145 *	141	18	6.6	0.9	0.2	0.0			28
29		0.3	60	118		16	6.1	0.9	0.2	0.0			29
30		0.3	23	93		14	5.4	0.8	0.2	0.0			30
31			14	71		13		0.8		0.0			31
MEAN		0.1	31.8	239	200	67.9	48.0	2.6	0.4	0.0			MEAN
MAX		0.4	233	1790	1410	376	475	7.2	0.7	0.1			MAX
MIN		0.0	0.4	2.2	31	13	5.4	0.8	0.2	0.0			MIN
AC FT.		7	1960	14680	11110	4177	2855	158	26	3			AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
48.3	7720E	11.04	1	21	0800	0.3		10	1	0000	34970

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FROM	TD			
37 28 38	120 06 43	SW21 5S 17E	7720E	11.04	1-21-69	DEC 57-SEP 69		1957	1969	0.00	LOCAL	

Station located at county road bridge, 3.7 miles north of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 24.9 square miles. Altitude of gage is approximately 1,210 feet (from topographic map). Station discontinued 9-30-69.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				21	123	526	34	21	7.0	2.6	0.7		1
2				16	117	421	35	20	7.0	2.6	0.6		2
3				13	94	300	105	19	7.0	2.6	0.5		3
4				10	80	197	52	24	7.0	2.0	0.5		4
5				8.0	140	145	315	26	7.4	2.0	0.4		5
6				7.0	510	121	840	21	8.2	2.0	0.4		6
7				6.0	523	105	268	19	7.8	2.0	0.3		7
8				6.0	182	92	133	17	7.0	2.0	0.2		8
9				5.0	121	84	99	17	7.0	2.0	0.1		9
10				5.0	95	193	61	17	7.0	2.0	0		10
11				4.0	80	170	70	17	7.0	1.8	0		11
12	N	N		4.0	90	12	62	15	7.0	1.6	0	N	12
13	O	O		339	92	125	52	14	7.0	1.5	0	O	13
14				1330	94	102	48	14	6.6	1.4	0		14
15				664	187	87	43	13	6.2	1.1	0		15
16	F	F	120	93	344	78	39	13	5.8	1.1	0	F	16
17	L	L	43	58	155	71	38	12	5.0	1.0	0	L	17
18	O	O	20	54	461	65	34	11	4.7	0.9	0	O	18
19	W	W	12	1140	531	58	32	10	4.4	0.8	0	W	19
20			8.0	1120	308	58	31	10	4.1	0.8	0		20
21			7.5	1420	203	404	30	10	4.1	0.8	0		21
22			6.9	1570	166	158	28	9.0	4.1	0.8	0		22
23			5.5	1080	432	102	30	9.0	4.1	0.8	0		23
24			5.0	199	1080	85	48	9.0	3.8	0.8	0		24
25			78	1150	1500	72	35	9.0	3.5	0.6	0		25
26			318	1320	1230	63	28	9.0	3.2	0.8	0		26
27			134	780	567	55	26	9.0	2.9	0.8	0		27
28			68	280	288	49	24	9.0	2.9	0.8	0		28
29			89	264	45	22	22	9.0	2.9	0.7	0		29
30			48	176	41	21	21	8.6	2.6	0.7	0		30
31			31	145	39	39	39	7.8	2.6	0.7	0		31
MEAN			32.1	428	349	137	90.8	13.8	5.5	1.4	0.1		MEAN
MAX			316	1570	1500	526	840	26	8.2	2.6	0.7		MAX.
MIN			0.0	4.0	80	39	21	7.8	2.6	0.7	0.0		MIN.
AC FT			1980	26360	19360	8410	5400	850	330	84	7		AC FT

E - ESTIMATED
 NR - NO RECORD
 v - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 = - END =

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
86.7	DISCHARGE	GAGE HT	MO. DAY TIME	DISCHARGE	GAGE HT	MO. DAY TIME	ACRE FEET
	1700		1 21	0		10 01 0000	62760

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37° 21' 28"	120° 14' 05"	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56	21	14	64	365	1840	75	186	94	126	142	222	1
2	67	20	10	52	308	1070	200	196	95	120	148	234	2
3	116	26	4.6	41	252	455	275	202	95	108	150	228	3
4	45	26	3.6	35	208	532	308	192	108	110	132	204	4
5	27	20	2.6	30	194	402	759	208	132	108	116	178	5
6	18	17	1.8	25	896	330	2200	200	108	101	130	174	6
7	19	31	1.4	22	1320	266	752	182	116	114	118	188	7
8	80	72	1.2	20	559	226	320	178	126	102	110	186	8
9	76	49	0.8	17	370	194	206	164	120	94	128	174	9
10	68	48	0.6	15	270	436	154	138	130	108	156	174	10
11	33	45	1.2	13	232	362	180	116	138	107	172	162	11
12	17	49	0.7	11	206	254	154	124	138	118	178	174	12
13	17	46	0.3	1140	270	240	210	114	142	102	166	192	13
14	18	46	1.2	4290	184	210	230	107	132	96	142	186	14
15	17	60	22	2190	333	188	210	96	176	101	128	190	15
16	15	71	27	549	885	138	156	101	172	96	130	192	16
17	14	68	82	338	445	122	150	112	160	104	150	196	17
18	13	62	38	349	1300	107	160	110	158	104	160	212	18
19	13	75	23	3090	1640	100	134	108	160	90	124	226	19
20	12	87	16	2660	1040	94	134	101	158	108	134	222	20
21	12	78	30	4320 *	589	477	158	108	152	100	152	218	21
22	12	68	18	3890	435	340	102	110	138	89	152	168	22
23	11	59	11	2150	1400	190	138	120	118	84	146	150	23
24	11	53	6.0	946	2930	136	292	102	106	79	168	148	24
25	11	52	78	3370	3580	110	266	116	101	82	180	160	25
26	10	44	1020	3860	2640	96	220	126	106	88	164	156	26
27	9.6	37	473	2180	1410	80	198	132	110	102	170	146	27
28	9.2	29	190	1060	757	75	176	126	100	120	178	152	28
29	12	22	173	911	70	160	112	112	112	107	180	146	29
30	18	18	126	573	65	196	92	92	122	122	180	134	30
31	21	87	450	450	60	60	101	101	128	128	200	134	31
MEAN	28.3	45.1	79.4	1247	894	299	296	134.8	127.4	103.8	151.1	183	MEAN
MAX	116	87	1020	4320	3580	1840	2200	208	176	128	200	234	MAX
MIN	9.2	17	0.3	11	184	60	75	92	94	79	110	134	MIN.
AC FT.	1740	2770	4890	76680	49620	18380	17600	8290	7580	6380	9290	10890	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM			TOTAL ACRE FEET		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
296	5120		1	21		0.3		12	13		214100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 18 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56-DATE		1956		75.00	ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	805518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	81	21	33	103	439	a	38	225	192	224	198	219	1
2	95	25	32	76	381	a	69	200	198	215	219	224	2
3	169	44	25	53	345	a	275	206	180	195	209	250	3
4	107	98	22	44	306	a	306	236	198	173	187	219	4
5	56	73	20	39	283	412	394	216	223	198	143	183	5
6	38	28	17	35	a	339	a	135	246	190	190	201	6
7	31	22	17	32	a	296	a	134	225	199	186	304	7
8	30	55	16	30	a	257	-116	172	246	136	205	377	8
9	62	62	15	28	a	229	319	175	239	151	176	316	9
10	76	61	14	26	439	334	255	150	290	132	179	283	10
11	54	58	19	26	376	410	153	127	330	164	198	270	11
12	40	70	21	25	347	304	108	126	296	202	225	261	12
13	31	65	17	134	402	269	259	142	311	209	253	291	13
14	32	58	44	a	346	259	249	128	279	204	209	360	14
15	29	93	61		319	309	207	120	304	173	233	347	15
16	22	126	58		463	182	160	115	322	170	218	329	16
17	19	102	89		a	163	161	118	296	131	249	338	17
18	17	87	74			149	193	132	244	137	259	335	18
19	17	83	44			137	135	175	170	151	192	305	19
20	16	101	35			128	134	151	154	186	156	278	20
21	15	95	40			275	266	168	182	196	180	249	21
22	15	89	39			415	144	159	197	198	191	236	22
23	18	82	28			239	124	161	193	184	157	208	23
24	16	73	25			180	287	169	174	134	213	182	24
25	16	70	56			141	319	173	174	123	291	225	25
26	16	65	538			121	314	207	184	115	274	189	26
27	15	55	838			104	291	215	188	168	259	180	27
28	15	49	300		a	97	234	212	219	201	269	203	28
29	15	41	242			91	188	159	271	152	257	211	29
30	17	36	194	a		84	207	187	274	177	249	195	30
31	23		122	533		61		163		195	202		31
MEAN	39	66	100					167	233	174	214	259	MEAN
MAX.	169	126	838					236	330	224	291	377	MAX.
MIN.	15	21	14					115	154	115	143	180	MIN.
AC FT.	2386	3941	6139					10286	13883	10677	13141	15408	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *
a - SEE (a) BELOW

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 15 21	120 39 08	NE 9 8S 12E				1930-					

Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.

Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.

Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff record dating back to 1947 is located on the succeeding page.

a Daily mean discharge was not computed for periods of high stage as the levee on Bear Creek broke approximately one mile upstream from the recorder on January 14, 1969, affecting the gage heights at the recorder.

DAILY MEAN RUNOFF
 (Runoff of Bear Creek at Merced Irrigation District No. 1 Boundary near Merced)
 October 1, 1946 through September 30, 1969

WATER YEAR	MONTHLY RUNOFF IN ACRE-FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
1947	NR	NR	NR	NR	NR	NR	4401	5139	4745	4286	4725	1910	-
1948	NR	NR	NR	NR	NR	NR	NR	5001	4391	4491	4499	4354	-
1949	2337	974	538	567	2041	9795	4086	6421	4136	3018	4267	3880	42860
1950	885	415	730	5042	8317	3739	9912	5657	6425	5742	4126	5219	51074
1951	1091	NR	NR	11377	10808	4969	8727	5367	6355	4991	6274	6976	-
1952	2963	916	5681	31099	8398	18724	15081	7427	7145	6012	7705	9150	119664
1953	5088	1279	4536	13601	1743	2838	5619	4657	4568	4382	3640	4518	56395
1954	3449	510	294	2265	4112	7139	8176	8922	5778	3118	3467	1400	48620
1955	807	567	202	9717	1214	1242	3019	2237	2684	2590	2932	1916	29127
1956	774	1392	NR	32137	7617	5586	14900	11437	7966	5913	5157	5931	-
1957	6192	1381	1486	785	1464	2938	10624	11889	6930	4655	4138	4253	56735
1958	3322	657	1444	11885	33952	8052	68748	8638	12147	9711	5733	7918	232177
1959	6181	1898	1490	1559	4921	2610	4124	3066	3023	2398	2386	680	34336
1960	292	75	341	538	5346	1109	2190	3884	2370	2198	1829	-	20172
1961	337	72	268	145	210	536	309	4187	2110	1202	538	105	11019
1962	0	67	224	323	81575	10144	4641	6704	4869	5496	4193	3521	121757
1963	2936	1384	1137	522	28318	7089	15164	5373	5292	4544	4298	3894	79951
1964	2331	571	262	1260	353	212	2868	3171	2810	2747	2095	36	18716
1965	450	1976	69315E	58021	2579	6050	27150	7863	10324	5941	5552	5722	200943
1966	1823	21206	18629	14087	4036	210	3324	3231	3279	2222	18	238E	72303
1967	307E	298E	8325E	14952	7884	11240	96364	8698	7434	6371	7946	8892	178711
1968	5597	4649	6073	1698	2567	4745	6262	6371	4709	6020	6468	6385	61544
1969	2386	3941	6139	NR	NR	NR	NR	10286	13883	10677	13141	15408	-

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	R56400	BURNS CREEK AT HORNITOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.0	3.8	30	172	6.2	4.2	0.7	0.1			1
2		0.0	0.0	3.4	24	74	8.0	3.8	0.7	0.1*			2
3		0.1	0.0	2.8*	21	67	33	3.4	0.7	0.1			3
4		0.0	0.0*	2.5	18	44	9.3	7.3	0.7*	0.1			4
5		0.0	0.0	2.0	76	34	475	5.6	0.7	0.1			5
6		0.0	0.0	1.8	255	29	115	4.2	0.7	0.1			6
7		0.0*	0.0	1.6	66	24	44	3.4*	0.7	0.1			7
8		0.0	0.0	1.4	37	21	29	3.1	0.7	0.1			8
9		0.0	0.0	1.0	27	47	22	2.8	0.7	0.1			9
10		0.0	0.1	1.0	21	53	18	2.2	0.6	0.1			10
11		0.0	1.0	0.8	18	23	16	2.0	0.6	0.1			11
12	N	0.0	0.6	0.8	47	22	14	1.6	0.6	0.1			12
13	O	0.0	0.3	613*	20	23	12	1.4*	0.6	0.1	N	O	13
14		0.0	1.4	401	24	17	11	1.4	0.7	0.0			14
15		0.1	30	48	140	16	10	1.4	0.7	0.0			15
16	F	0.0	28	23	67	14	9.3	1.2	0.5	0.0		F	16
17	L	0.0	5.6*	16	34	13	8.4	1.2	0.5	0.0*		L	17
18	O	0.0	2.8	131	237	12	8.0	1.0	0.4	0.0	O		18
19	W	0.0	2.0	747	150	11	7.3	1.0	0.4	0.0	W		19
20		0.0	1.6	296	60	27	6.7	1.0	0.4	0.0			20
21		0.0	1.0	1000*	37	105	6.7	1.0	0.3	0.0			21
22		0.0	0.7	120	32	20	6.2	0.9	0.2	0.0			22
23		0.0	0.6	51	348	16	26	0.8	0.2	0.0			23
24		0.0	6.0	120	760*	13	14	0.8	0.2	0.0			24
25		0.0	80	865*	224	12	8.8	0.8	0.2	0.0			25
26		0.0	176*	318	204	11	7.3	0.8	0.2	0.0			26
27		0.0	20	73	70	9.3	6.2	0.7	0.2	0.0			27
28		0.0	13	109	138	8.8	5.6	0.7	0.2	0.0			28
29		0.0	9.3	60	8.4	4.6	0.7	0.1	0.0	0.0			29
30		0.0	5.6	49	7.3	4.2	0.8	0.1	0.0	0.0			30
31		0.0	4.6	34	6.7	6.7	0.8	0.8	0.0	0.0			31
MEAN		0.0	12.6	164	114	31	32	2.0	0.5	0.0			MEAN
MAX.		0.1	176	1000	760	172	475	7.3	0.7	0.1			MAX.
MIN.		0.0	0.0	0.8	18	6.7	4.2	0.7	0.1	0.0			MIN.
AC FT.		0	774	10110	6321	1905	1888	123	28	3			AC FT.

E - ESTIMATED
 N# - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO.	DAY	TIME	TOTAL ACRES FEET
29.2	3040E	8.46	1	21	1030	0.0	10	1	0000		21150

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	9200E ^a	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
				GAGE HT.	DATE	FROM			TO			
37 29 42	120 14 17	SE17 S5 16E	9200E ^a	10.66	2-15-62	DEC 58-SEP 69			1958	1969	0.00	LOCAL

Station located 130 feet south of Stockton-Mariposa road, 0.2 mile southwest of Hornitos. Tributary to San Joaquin River via Bear Creek. Drainage area is 26.7 square miles. Altitude of gage is approximately 780 feet (from U. S. Geological Survey topographic map). Station discontinued 9-30-69.

a Maximum discharge of record was caused by a flood wave when a temporary debris dam which was lodged against a bridge approximately 1/4 mile upstream was removed thereby releasing impounded water.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	856100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	0	11	102	538	11	5.5					1
2		0	0	7.5	91	212	12	5.2					2
3		0	0	6.1	78	184	47	4.9					3
4		0	0	5.2	70	126	25	5.8					4
5		0	0	4.6	99	100	478	9.0					5
6		0	0	3.8	419	80	518	7.0					6
7		0	0	3.6	235	64	120	6.1					7
8		0	0	3.2	120	46	70	5.8					8
9		0	0	3.0	96	66	46	5.8					9
10		0	0	2.8	79	202	36	5.8					10
11		0	0.4	2.2	70	78	30	5.8					11
12	N	0	1.4	2.0	107	50	26	4.6	N				12
13	O	0	0.6	847	91	57	22	4.0	O	N	O	N	13
14		0	18	1640	69	43	19	3.8					14
15		11	7.2	509	224	36	16	3.4					15
16	F	0.3	17	114	231	31	15	3.0	F				16
17	L	0.1	2.6	72	112	29	14	2.6	L	F	F	F	17
18	O	0	1.0	217	566	26	12	1.9	O	O	O	O	18
19	W	0	1.0	1300	398	24	12	1.4	W	W	W	W	19
20		0	11	690	212	25	12	1.0					20
21		0	5.5	1650 *	136	178	11	0.8					21
22		0	1.7	1250	118	28	10	0.6					22
23		0	0.9	183	697	31	32	0.4					23
24		0	18	190	1160	26	43	0.3					24
25		0	58	1490	1170	23	18	0.2					25
26		0	321	1370	596	20	12	0					26
27		0	80	261	225	18	10	0					27
28		0	47	267	316	16	9.0	0					28
29		0	31	212		15	7.5	0					29
30		0	19	142		14	6.4	0					30
31		0	14	116		12		0					31
MEAN		0.4	21.2	406	282	77.4	56.7	3.1					MEAN
MAX.		11	321	1650	1170	538	518	9.0					MAX.
MIN.		0.0	0.0	2.0	69	12	6.4	0.0					MIN.
AC FT.		23	1300	24940	15640	4760	3370	188					AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	NO. DAY	TIME	DISCHARGE	GAGE HT.	NO. DAY	TIME	ACR	PBT
69.4		1830		1	21	0.0		10	01	0000	50230

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	CF5	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO DW GAGE	REF DATUM	
				GAGE HT	DATE			FROM	TO			
37 22 27	120 16 35	NB 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS	

Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37	23	38	290	12300	19700	10800	4620	9850	4050	137	129	1
2	33*	25	38	204	12100	19500	10700	5160	9710	3960	144	136	2
3	28	28	38	116	12100	18700	10600	7570	9710	3790	149	185	3
4	34	30	35	93	12400	18500	10400	8550	9580	3550	151	238	4
5	42	48	34	71	12800*	18000*	10100	8510	9800	3250	149*	256	5
6	37	61*	32	66*	12800	16600	9890	8420	10800	3040	132	229	6
7	34	49	30	63	13800	16000	12900	7420	11900	2640	124	271	7
8	30	46	28	68	15300	16100	13200*	5530	12900	1720	115	418	8
9	27	42	31	75	14100	16200	12500	5580	13400*	1240	112	373	9
10	27	48	32	70	13200	16200	11800	7870	14000	958	90	268	10
11	26	45	32	62	12800	17200	11700	9180	14500	715	86	216	11
12	25	46	37	60	12600	17200	11500	9350	14700	518	92	273	12
13	25	53	41	83	12200	16200	10500	9350	14900	409	112	268	13
14	28	63	48	463	12500	16000	9580	9350	14400	350	121	309	14
15	24	66	57	2760	12200	15400	8710	9310	13300	306	116	350	15
16	22	88	70	4210*	12600	15100	8420	9350	12500	317	118	373	16
17	21	96	72	2970*	13800	14900	8550	9270	12400	281	118	376	17
18	20	86	74	1890	14200	14700	8630	9220	12300*	201	129	370	18
19	25	79	62	1950	15200	14700	8140	9270	12000	187	139	347	19
20	27	77	55	3680*	16900	14600	7420	9220*	11800	175	153	333	20
21	29	77	56	7270	16400*	14700	6860	9400	11200	268	153	328	21
22	27	74	53	8660*	15700	15300	6360	9490	10700	311	151	311	22
23	21	70	53	12000*	15000	15200	6160	9490	9270	229	118	288	23
24	26	61	63	10000	15900	14900	5940	9490	7680	179	109	229	24
25	28	61	71	8280	22900	14700	5700	9580	6290	147	116	218	25
26	27	63	86	10800*	26400*	14600	5680	9710	5260	132	132	231	26
27	22	49	379	14300*	24800	14200	5780	9440	4580	127	142	209	27
28	25	44	804	13900	21700	13500*	5580	10100	4270	129	146	191	28
29	28	42	665	12300		13000	5240	10200	4150	137*	144	167	29
30	27	40	496	11600		11700	4990	10100	4100	132	142	142	30
31	24		386	12300		10900		10000		134	137		31
MEAN	27.6	56.0	129	4537	15170	15620	8811	8681	10398	1083	128	269	MEAN
MAX.	37	96	804	14300	26400	19700	13200	10200	14900	4050	153	418	MAX.
MIN.	20	23	28	60	12100	10900	4990	4620	4100	127	86	129	MIN.
AC. FT.	1698	3332	7926	279000	842400	960400	524300	53800	618700	66610	7888	16010	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND W

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL
5335	26740 76.23 2 26 1030	14 60.95 10 23 1700	3862000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATE OF GAGE		
LATITUDE	LDHGITUDE	1/4 SEC. T & R M D B A.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FRDM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	800975	PANOCHÉ DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1							NR	71	83	7	75	46	1
2							NR	73	82	6	74	40	2
3							NR	73	82	6	66	40	3
4							NR	73	82	6	66	40	4
5							NR	73	82	7	68	40	5
6							NR	73	82	6	69	41	6
7							NR	73	82	6	66	40	7
8							68	73	81	65	69	36	8
9							65	74	80	59	69	35	9
10							58	76	80	62	68	36	10
11							57	76	80	66	69	36	11
12							56	76	80	70	72	36	12
13							51	75	81	71	73	34	13
14							54	75	81	70	74	34	14
15							54	75	80	69	72	34	15
16							54	78	80	70	69	35	16
17							57	78	76	72	69	36	17
18							60	78	67	72	67	34	18
19							60	78	61	74	67	32	19
20							59	79	59	75	68	29	20
21							62	77	56	75	65	30	21
22							65	77	54	74	62	29	22
23							65	78	59	70	64	31	23
24							68	78	55	66	59	32	24
25							65	79	60	63	58	31	25
26							66	80	60	62	62	30	26
27							68	81	61	61	61	31	27
28							69	82	64	69	61	32	28
29							72	82	67	72	60	30	29
30							72	83	70	75	57	30	30
31							84	84	74	74	51	31	31
MEAN								76.8	72.2	68.8	66.2	34.7	MEAN
MAX.								84	83	75	75	46	MAX.
MIN.								71	54	59	51	29	MIN.
AC. FT.								4723	4298	4233	4070	2063	AC. FT.

STATION INACTIVE

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE		MAXIMUM					MINIMUM					TOTAL ACRE FEET	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 55 25	120 41 19	NW 5 12S 12E	69. 84. ^a	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

^a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71	65	5	111	315	369	240	234	378	257	153	196	1
2	60	78	59	106	303	360	245	238	378	274	154	198	2
3	55	88	86	101	293	356	250	287	382	273	152	190	3
4	45	108	92	86	286	358	252	324	376	280	153	169	4
5	30	131	86	76	277	346	256	333	372	289	158	146	5
6	30	132	82	64	279	336	259	340	381	308	152	143	6
7	24	125	84	58	283	325	289	331	395	315	149	203	7
8	20	130	88	56	295	319	309	300	408	298	135	258	8
9	25	128	73	58	287	317	297	278	415	256	130	253	9
10	12	125	88	63	277	314	290	320	418	229	130	235	10
11	12	133	96	66	271	315	290	354	414	233	139	200	11
12	15	140	97	70	272	318	296	361	409	206	147	176	12
13	19	134	102	79	268	310	289	365	405	206	124	162	13
14	31	128	107	110	263	304	275	371	390	215	119	158	14
15	21	128	130	135	258	297	268	373	364	222	136	160	15
16	27	133	131	181	259	290	265	380	341	228	145	155	16
17	29	132	128	157	267	286	269	382	327	229	142	147	17
18	13	130	123	110	277	285	273	374	314	218	152	148	18
19	14	122	116	115	282	280	271	374	326	209	160	145	19
20	14	103	108	156	296	273	265	377	334	218	172	150	20
21	22	94	107	259	302	272	258	378	339	225	174	158	21
22	21	96	106	345	302	273	252	375	346	238	180	172	22
23	16	81	98	381	306	279	253	368	339	211	179	176	23
24	22	81	93	365	320	270	256	365	329	191	185	168	24
25	29	67	98	336	364	265	262	368	306	197	186	157	25
26	27	62	108	347	404	263	263	375	270	198	195	169	26
27	25	53	116	384	401	261	263	380	239	192	183	181	27
28	31	54	117	375	382	250	266	383	232	196	181	175	28
29	46	55	124	348	250	257	257	383	236	196	179	174	29
30	55	55	121	328	244	244	245	381	242	184	187	165	30
31	58		113	323	238	238		381		168	189		31
MEAN	30.3	103	101	185	300	298	267	349	347	231	159	176	MEAN
MAX.	80	140	131	384	404	369	309	383	418	315	195	258	MAX.
MIN.	12	53	57	56	258	238	240	234	232	168	119	142	MIN.
AC FT.	1862	6131	6216	11400	16640	18290	15910	21490	20640	14200	9759	10470	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
211	419	70.35	6	10	2400	12	63.13	10	11		153000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	GATE			FROM	TO		
37 14 52	120 51 04	SE10 8S 10E	419	70.35	6-10-69	MAR 68-DATE		1968		0.00	USCGS

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Station installed on February 28, 1968.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B52600	NORTH FORK MERCED RIVER NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	2.0	2.7	14	59	170	47	26	10	5.6	1.8	1.1	1
2	0.4	3.0	2.0	14	54	160	47	26	10	5.1	1.5	1.5	2
3	0.4	9.1	1.8	12	54	154	54 *	26	10 *	5.1	1.5	1.5 *	3
4	0.6	2.3 *	1.5	11	54	132	42	26	9.8	4.6	1.5	1.5	4
5	0.6	1.8	1.5	10	80	120	159	24	9.8	4.6	1.8 *	1.1	5
6	0.3	2.0	1.5 *	8.5	209 *	112	174	23	9.1	4.6	1.5	0.9	6
7	0.3	1.8	1.3	7.8	150	102 *	144	23 *	9.8	4.6	1.5	1.5	7
8	0.4 *	1.8	1.3	7.8	102	87	107	21	9.8	5.1 *	1.5	2.0	8
9	0.3	1.8	1.3	6.7	82	82	87	21	11	4.6	1.5	1.8	9
10	0.3	1.8	2.3	6.7	74	80	76	21	11	4.2	1.3	1.3	10
11	0.2	1.8	5.1	6.1	74	76	67	20	11	4.2	1.5	1.1	11
12	0.3	3.8	3.0	6.1	109	76	58	20	10	3.8	1.1	1.3	12
13	1.3	2.3	2.3	25.0 *	99	74	54	19	9.8	4.2	1.1	1.3	13
14	0.9	2.3	3.4	25.9	82	74	49	18	9.1	3.8	1.1	1.1	14
15	0.9	6.7	13	65	191	74	45	17	9.1	3.8	0.9	1.3	15
16	0.9	3.0	23	39	218	76	42	17	8.5	3.8	0.9	0.9	16
17	0.9	2.3	9.1	28	129	82	39	16	9.1	3.8	0.9	0.9	17
18	0.9	2.0	6.7	24.7	123	89	39	16	9.1	3.8	1.1	1.1	18
19	0.9	2.0	6.1	1910	123	87	38	15	7.8	3.8	1.1	1.1	19
20	0.9	1.8	5.1	448	115	87	36	14	7.8	3.4	1.1	1.1	20
21	0.9	1.8	4.2	2100	99	115	35	14	7.2	3.0	1.1	0.6	21
22	1.1	1.8	3.8	499	85	99	33	14	7.2	3.0	1.1	0.6	22
23	1.1	1.8	4.2	167	85	87	45	13	7.8	2.3	0.9	0.6	23
24	1.1	2.0	22	105 *	449	82	42	12	7.2	2.3	0.9	0.7	24
25	1.3	2.0	73	1050 *	311	76	35	12	7.2	2.3	0.9	0.7	25
26	1.3	1.8	50 *	846	191	69	33	12	7.2	2.3	0.9	0.7	26
27	1.5	1.8	26	258	147	65	32	12	7.2	2.0	1.1	0.7	27
28	1.3	1.8	23	144	150	65	29	12	6.7	2.0	0.9	0.9	28
29	1.5	1.8	24	97	58	28	11	11	6.7	2.0	1.1	0.7	29
30	3.0	1.5	21	80	54	27	11	11	6.1	1.5	1.1	0.6	30
31	1.8		19	63	50	50	10	10	1.5	0.9	0.9	0.9	31
MEAN	0.9	2.4	11.8	280	132	90.8	58.1	17.5	8.7	3.6	1.2	1.1	MEAN
MAX.	3.0	9.1	73	2100	449	170	174	26	11	5.6	1.8	2.0	MAX.
MIN.	0.2	1.5	1.3	6.1	54	50	27	10	6.1	1.5	0.9	0.6	MIN.
AC. FT.	56	146	724	17190	7335	5581	3457	1075	520	220	74	64	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
0.3	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	36400
	3780E	7.50	1	21	1120	0.2	3.18	10	11	1200	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM		
			CFS	GAGE HT.	DATE			FROM	TO				
37 44 51	120 02 12	NW 19 2S 18E	3780E	7.50	1-21-69	DEC 58-SEP 69		1958	1969	0.00	LOCAL		

Station located 40 feet upstream from Greeley Hill Road Bridge, 9 miles northeast of Coulterville. Drainage area is 30.3 square miles. Maximum discharge of record from rating curve extended above 2,145 cfs. Altitude of gage is 2,360 feet (from U. S. Geological Survey topographic map). Station discontinued 9-30-69.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B52580	BEAN CREEK NEAR COULTEVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.6	1.4	3.3	18	38	6.0	5.1	2.0	0.7	0.5	0.2	1
2	0.1	0.9	1.4	3.1	17	39	7.0	4.8	2.0	0.7	0.5	0.2	2
3	0.1	1.1	0.3	3.0	15	43	16 *	5.2	1.8*	0.7	0.5	0.1*	3
4	0.1	0.3*	0.3	3.1	15	33	10	5.4	1.6	0.7	0.5	0.1	4
5	0.1	0.2	0.3	3.1	30	28	51	5.0	1.5	0.6	0.4*	0.1	5
6	0.1	0.2	0.3*	3.0	77 *	25	48	4.8	1.5	0.6	0.4	0.1	6
7	0.1	0.2	0.3	2.6	35	23	32	4.5*	1.5	0.6	0.4	0.2	7
8	0.1*	0.2	0.3	2.5	24	17	22	4.5	1.5	0.6*	0.4	0.2	8
9	0.1	0.2	0.3	2.4	18	17	20	4.1	1.8	0.6	0.4	0.2	9
10	0.1	0.2	0.5	2.2	16	20	12	4.1	2.0	0.6	0.4	0.2	10
11	0.1	0.2	0.7	2.2	15 E	20	4.1	4.0	2.0	0.5	0.4	0.2	11
12	0.2	0.4	0.4	2.2	22 E	19	10	4.0	1.8	0.5	0.4	0.2	12
13	0.4	0.2	0.4	127 *	17 E	18	9.6	3.7	1.6	0.6	0.3	0.2	13
14	0.2	0.3	0.7	88	16 E	16	8.9	3.5	1.4	0.5	0.4	0.2	14
15	0.2	0.9	3.6	20	47 E	15	8.4	3.7	1.3	0.5	0.3	0.2	15
16	0.2	0.3	2.1	12	47 E	14	7.7	2.9	1.3	0.5	0.3	0.2	16
17	0.2	0.3	0.9	8.4	40 E	14	7.2	2.9	1.3	0.5	0.3	0.2	17
18	0.2	0.3	0.7	32	40 E	13	7.2	2.9	1.3	0.5	0.3	0.1	18
19	0.2	0.3	0.7	393	39 E	12	6.8	2.8	1.1	0.5	0.2	0.1	19
20	0.2	0.3	0.6	79	34	14	6.4	2.5	1.1	0.5	0.3	0.1	20
21	0.2	0.2	0.6	455	30	33	6.4	2.5	1.0	0.4	0.2	0.2	21
22	0.2	0.2	0.5	105	24	23	5.8	2.7	1.0	0.4	0.2	0.1	22
23	0.2	0.2	0.6	35	23	17	9.9	2.5	1.2	0.4	0.2	0.1	23
24	0.3	0.3	4.6	30	112	14	9.6	2.5	0.9	0.4	0.2	0.1	24
25	0.3	0.3	20	273	72	12	7.0	2.5	0.8	0.4	0.2	0.1	25
26	0.3	0.3	16	173	40	10	6.4	2.4	0.8	0.4	0.2	0.1	26
27	0.3	0.3	6.1	49	30	9.1	6.0	2.4	0.8	0.4	0.2	0.2	27
28	0.4	0.3	7.2	33	37	8.4	5.6	2.4	0.8	0.4	0.2	0.2	28
29	0.5	0.3	5.7	24		7.2	5.4	2.3	0.8	0.4	0.2	0.2	29
30	0.9	0.3	3.7	20		6.6	5.4	2.2	0.8	0.4	0.2	0.2	30
31	0.6		3.5	18		5.6		2.1		0.4	0.2	0.1	31
MEAN	0.2	0.3	2.7	64.7	33.9	17.4	12.3	3.4	1.3	0.5	0.3	0.2	MEAN
MAX	0.9	1.1	20	455	112	43	51	5.4	2.0	0.7	0.5	0.2	MAX
MIN	0.1	0.2	0.3	2.2	15 E	5.6	4.1	2.1	0.8	0.4	0.2	0.1	MIN
AC. FT.	14	20	164	3981	1884	1158	730	212	79	32	19	10	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO DAY TIME	DISCHARGE	GAGE HT.	MO DAY TIME	ACRE FEET
11.5	1090	8.13	1 21 1100	0.1	1.32	10 1 0000	8306

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		0.00	LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville.
 Maximum discharge of record from rating curve extended above 758 cfs.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B51299	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	2.2	3.8	34	119	13	7.9	1.7	1.1	1.4	0.1	1
2	0.0	0.3	2.2	4.4	34	112	16	7.4	1.9	1.1	1.4	0.1	2
3	0.0	4.6	2.1	3.4	32	105	22	7.4	1.8*	1.7	0.3	0.1	3
4	0.0	1.5*	1.9	2.6	29	83	15	7.6	1.7	0.8	0.3	0.1	4
5	0.0	1.0	1.9	2.1	63	67	185	7.1	1.7	0.8	0.4*	0.1	5
6	0.0	0.8	1.8*	1.8	135	56	138	6.8	1.6	0.9	0.4	0.1	6
7	0.0	0.8	1.6	1.4	80	48	89	6.3*	1.6	0.9	0.4	0.2	7
8	0.0*	0.7	1.6	1.3	54	40	58	5.6	1.6	0.9*	0.2	0.1	8
9	0.0	0.8	1.5	1.0	40	38	44	5.6	1.9	0.8	0.2	0.1	9
10	0.0	0.8	1.8	0.8	31	46	35	5.3	2.1	0.7	0.3	0.1	10
11	0.0	0.7	6.1	0.8	28	45	30	5.1	2.2	0.8	0.3	0.1	11
12	0.0	1.6	3.4	0.8	39	44	27	4.7	2.1	0.7	0.2	0.0	12
13	0.4	1.3	2.6	2.96*	30	43	24	4.7	1.9	0.7	0.2	0.1	13
14	0.2	1.4	3.6	14.9	31	39	22	4.2	1.6	0.6	0.1	0.0	14
15	0.1	5.8	2.9	2.0	142	36	20	4.2	1.6	0.7	0.1	0.1	15
16	0.1	2.4	2.0	8.2	118	31	18	4.0	1.6	0.6	0.1	0.1	16
17	0.1	1.8	4.6	5.2	77	29	16	3.5	1.6	0.6	0.1	0.1	17
18	0.1	1.5	3.2	11.3	123	26	16	3.5	1.6	0.5	0.2	0.1	18
19	0.0	1.5	3.0	5.97*	131	23	14	3.5	1.5	0.5	0.2	0.1	19
20	0.0	1.4	2.6	16.8	97	37	13	3.3	1.5	0.4	0.1	0.1	20
21	0.0	1.4	2.2	6.35	73	86	12	3.2*	1.5	0.4	0.1	0.1	21
22	0.0	1.3	2.2	16.4	58	57	11	3.2	1.5	0.4	0.1	0.1	22
23	0.0	1.3	2.1	6.3	81	44	16	3.0	1.5	0.4	0.1	0.0	23
24	0.0	1.5	2.1	4.6	4.98	36	13	2.8	1.4	0.4	0.1	0.1	24
25	0.0	1.5	8.6	4.67	183	30	11	2.6	1.3	0.4	0.1	0.1	25
26	0.0	1.4	5.4*	3.22	127	26	10	2.6	1.3	0.4	0.1	0.1	26
27	0.0	1.4	1.5	9.5	101	23	9.4	2.6	1.4	0.4	0.1	0.0	27
28	0.0	1.5	4.2	6.7	98	20	8.8	2.6	1.3	0.5	0.1	0.1	28
29	0.1	1.5	2.1	4.9	19	18	8.2	2.4	1.3	0.5	0.1	0.1	29
30	0.2	1.5	1.1	4.0	16	16	8.2	2.2	1.1	0.4	0.1	0.1	30
31	0.1	1.5	7.4	3.3	34	14	2.1	2.1	1.1	0.4	0.1	0.1	31
MEAN	0.0	1.5	11.6	10.9	91.7	46.4	30.8	4.4	1.6	0.6	0.2	0.0	MEAN
MAX.	0.4	5.8	8.6	6.35	4.98	11.9	18.5	7.9	2.2	1.1	0.4	0.2	MAX.
MIN.	0.0	0.1	1.5	0.8	28	14	8.2	2.1	1.1	0.4	0.1	0.0	MIN.
AC FT.	3	9.0	71.6	6.672	5.092	28.50	28.30	27.2	9.6	3.9	1.2	2	AC FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
24.4	1250	5.63	1	19	0400	0.0		10	1	0000	1780

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39	404	90	103	101	4850	2860	2320	5540	990	580	744	1
2	9.2	130	90	97	97	4890	2850	2320	5750	983	580	734	2
3	0.3	138	90	97	97	4910	2850	2330	5750	990	562	771	3
4	0.8*	115	90	95	99	4900	2820	2330	5760	1010	566	793	4
5	7.1	90	90	93	440	4860	3330	2300	5990	1170	580	793	5
6	9.8	83	90	92	2840	4870	3360	2190	5990	1230	553	793	6
7	10.4	84	88	90	4020	4900	3260	2160	5960	1370	576	568	7
8	27	88	88	88	4740	4910	3220	2200	5730	1100	599	848	8
9	132	86	88	115	4970	4910	3120	2490	5760	996	594	848	9
10	132	86	90	69	4970	4280	3080	2540	5280	1000	599	990	10
11	136	90	90	73	4930	3370	2950	2670	4300	820	419	880	11
12	145	99	90	86	4960	3360	2880	2590	3080	566	185	906	12
13	174	92	88	257	4940	3320	2880	2940	2480	562	190	641	13
14	304	92	103	384	4890	3320	2990	3300	2400	571	187	304	14
15	441	103	95	111	5010	3320	3290	3570	2380	580	618	801	15
16	445	97	99	90	4830	3320	3190	3700	2370	557	642	338	16
17	441	93	95	86	4890	3310	3130	3740	2380	544	657	390	17
18	417	92	93	90	4800	3310	3120	3780	2370	557	662	478	18
19	461	90	93	496	4930	3310	2960	3970	1900	530	657	526	19
20	457	90	92	159	4830	3310	2760	4260	1160	495	647	566	20
21	474	90	92	946	4850	3340	2710	4400	1120	526	633	609	21
22	491	90	99	271	4850	3300	2560	4470	1080	521	662	652	22
23	499	92	134	121	4850	3290	2600	4470	1350	530	672	421	23
24	487	92	103	103	4670	3290	2690	4510	2500	548	662	172	24
25	487	95	125	596	4290	3280	2590	4500	3000	557	613	174	25
26	474	93	221	389	3590	3260	2510	4560	2620	557	672	172	26
27	466	93	117	162	3440	3110	2580	4780	1870	491	723	182	27
28	466	92	109	145	3820	2960	2480	4800	1210	474	703	206	28
29	482	90	107	138	2820	2420	2420	4910	1060	499	698	214	29
30	495	88	101	109	2960	2360	5140	1020	530	734	237	30	30
31	499		129	105	2940		5280		544	750			31
MEAN	322	105	102	189	3777	3745	2880	3533	3305	723	586	558	MEAN
MAX.	499	404	221	946	5010	4910	3360	5280	5990	1370	750	990	MAX.
MIN.	0.3	83	88	69	97	2820	2360	2160	1020	474	185	172	MIN.
AC. FT.	19820	6262	6286	11620	209700	230200	171400	217200	196700	44430	36050	33230	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
1634	6020	13.12	6	6	0400	0.2	5.05	10	3	1800	1183000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD			
			CFS	GAGE HT	DATE			FROM	TO	REF DATUM	
37 30 06	120 27 03	NEL17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	79	612	125	150	283	4710 E	2850	2230	5060	966	474	804	1
2	85	480	124	146	247	4700 E	2840	2220	5340	908	473	809	2
3	92	291	122	128	227	4690 E	2860	2220	5440	910	486	798	3
4	85	269	129	123	204	4680 E	2840	2210	5460	918	474	852	4
5	75	225	122	117	200	4670 #	3020	2200	5690	996	485	872	5
6	69	195	122	114	2220	4660	4320	2170	5840	1050	481	867	6
7	66	173	113	110	3740	4690	3390	2040	5810	1190	463	705	7
8	59	171	110	109	4430	4700	3230	2050	5770	1140	484	836	8
9	59	168	112	105	4760	4700	3120	2270	5760	918	523	897	9
10	71	164	110	124	4810	4700	3030	2440	5380	897	507	919	10
11	96	159	116	178	4750	3510	2990	2420	4650	827	523	933	11
12	113	172	116	187	4790	3340	2850	2430	3490	664	299	949	12
13	149	177	110	134	4800	3320	2840	2570	2590	530	209	974	13
14	188	165	128	1670	4720	3310	2830	2910	1920	501	192	475	14
15	304	183	137	772	4810	3290	3110	3250	2390	512	274	638	15
16	466	192	130	280	5450	3270	3140	3370	2370	524	527	660	16
17	583	173	127	192	4810	3270	3020	3500	2370	507	571	443	17
18	522	166	119	163	5460	3260	3010	3510	2340	478	590	507	18
19	513	158	116	1280	5380	3250	2950	3620	2270	460	596	541	19
20	540	153	119	1140	5380	3260	2740	3950	1370	427	602	594	20
21	543	148	115	3660	4760	3360	2650	4150	1140	435	587	641	21
22	558	147	111	2430	4750	3320	2590	4230	1110	432	602	708	22
23	573	144	111	684	4740	3270	2460	4270	1110	431	660	704	23
24	581	139	147	446	4740	3250	2600	4280	1850	436	669	390	24
25	575	131	133	1630	4730	3240	2570	4330	2830	463	664	275	25
26	568	133	472	3090	4720	3230	2450	4240	2770	464	632	254	26
27	563	132	512	1060	4720	3180	2450	4460	2150	482	718	240	27
28	556	128	235	617	4720	2960	2480	4500	1410	434	734	254	28
29	558	125	182	668	2890	2340	4520	1090	416	416	735	285	29
30	594	125	174	416	2880	2280	4760	1030	402	402	764	285	30
31	599	149	334	2930	2930	2930	4850	4850	443	443	777	285	31
MEAN	338	193	153	718	3894	3693	2862	3296	3277	650	541	637	MEAN
MAX.	599	612	512	3660	5460	4710 E	4320	4850	5840	1190	777	974	MAX.
MIN.	59	125	110	105	200	2880	2280	2040	1030	402	192	240	MIN.
AC. FT.	20790	11500	9418	44150	216200	227100	170300	202700	195000	39990	33270	37900	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE		MAXIMUM DISCHARGE				MINIMUM DISCHARGE				TOTAL ACRES FEET		
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	
1669		8230	23.18	1	21	1930	57	9.81	10	8	1430	1208000

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1-4 SEC. T. & R M D B & S.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO DW GAGE	REF. DATUM		
			CFS	GAGE HT.	DATE			FROM	TO				
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962 1962	96.24 86.24	USCGS USCGS		

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions.

a Reflects present datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00525	MUSTANG CREEK NEAR BALICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	0	0	0.1	0.4	24	0	0.4	0			0	1
2	0.1	0	0	0.1	0.2	6.5	0	0.2	0			0	2
3	0.1	2.6	0	0	0.1	2.3	0.1	0.1	0			0	3
4	0	4.3	0	0	0.1*	1.2	0	0	0.1			0	4
5	0	1.0	0	0	0.1	0.7	7.0	0	0.1			0	5
6	0	0.1	0.1	0	26	0.3*	18	0	0			0	6
7	0	0.1	0	0	20	0.2	3.6	0.2	0			0.1	7
8	0	0	0 E	0	3.4	0.1	0.8	0.1	0.2			0.4	8
9	0	0	0 E	0	0.8	0.2	0.3	0	0.4			0.1	9
10	0	0	0 E	0	0.3	0.2	0.1	0	0			0	10
11	0	0	0 E	0	0.2	0.1	0	0	0.2			0	11
12	0	0	0 E	0	13	0.4	0	0.1	0.1	N	N	0.1	12
12	0.5	0.2		2.9	2.9*	0.6	0	0.1	0	O	O	0.1	13
14	0.2	0.1	15	24	1.2	0.2	0	0	0			0.1	14
15	0.1	16	2.9	7.5	17	0.2	0	0	0			0.1	15
16	0	3.0	2.8	1.1*	61	0.1	1.3	0	0	F	F	0	16
17	0	0.4	0.8	0 E	8.8	0	1.3	0.1	0	L	L	0	17
18	0	0.2	0.3	1.2E	85	0.1	0.8	0.2	0	O	O	0.1	18
19	0	0.1*	0.1	48	51	0	0.2	0.2	0	W	W	0.2	19
20	0	0.1	0.4*	27	20	0	0.1	0.1	0			0.2	20
21	0	0.7	0.3	185 *	6.1	0.7	0.1	0.2	0			0.2	21
22	0	0.1	0.2	42	4.9	0.5	0.8	0.3	0			0.2	22
22	0	0	0.1	10	4.9	0.2	2.2	0.1	0			0.1	23
24	0	0	0.4	4.6	124	0.2	0.6	0	0			0	24
25	0	0	4.9	88	43	0.1	0.4	0	0.1			0.1	25
26	0	0	26	84	40	0	0.2	0	0.1			0.2	26
27	0	0	8.2	24	12	0	0.1	0.1	0			0.2	27
28	0.1	0	4.4	12	11	0	0	0	0			0.2	28
29	0	0	2.0	9.5	0	0	0	0	0			0.1	29
30	0.1	0	0.7	2.7	0	0	0.6	0	0.1			0.1	30
31	0.1	0	0.2	0.8	0	0	0	0	0			0	31
MEAN	0	1.0	2.3	18.5	21.5	1.3	1.3	0.1	0			0.1	MEAN
MAX.	0.5	16	26	185	124	24	18	0.4	0.4			0.4	MAX.
MIN.	0	0	0	0	0.1	0	0	0	0			0	MIN.
AC. FT.	3	58	138	1140	1193	78	77	5	3			6	AC. FT.

E — ESTIMATED
 NB — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL
DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
3.7		281	5.63	1 21	1200	0.0		1	0800	2790

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD			ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT.	DATE			FROM	TO				
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65#-DATE		FROM	TO	1965	0.00	LOCAL	

Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map).

a Station installed in November 1965, but data were insufficient to publish prior to this year. Discharge measurements and partial gage height records are available in DWR files.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	808720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.1	3.2		0.0	61	829	46	84	95	69	38	79	1
2	10	3.6		0.0	48	577	96	62	104	19	41	45	2
3	22 *	7.6		0.0	39	373	126	20	71	10	19	12	3
4	15	4.5	*	0.0	32	251	163	3.9	34	19	67	7.3*	4
5	52	4.9		0.0	26	191	161	83	14	22	23 *	7.9	5
6	40	7.3*		0.0*	436	138	191	37	73	16	10	4.7	6
7	24	6.8		0.0	367	116	122	14	65	26	7.9	20	7
8	12	9.3		0.0	163	101	119	20	81	25	8.4	93	8
9	12	6.6		0.0	104	89	85	39	85	45	12	70	9
10	6.3	3.8		0.0	77 *	80	85	75	100	34	16	68	10
11	5.6	2.6		0.0	63	72	92	86	126	12	22	89	11
12	7.3	11	N	0.0	374	65	98	130	45	30	13	58	12
13	7.3	5.4	D	0.0	199	68	46	119	65	23	16	52	13
14	6.6	7.9		0.0	121	57	10	91	82	19	33	72	14
15	2.9	6.8		0.0	426	45	61	47	87	11 *	8.7	75	15
16	5.6	1.9	F	0.0	607	39	126	45	107	17	24	33	16
17	2.3	0.9	L	0.0	282	34 *	91	50	65	23	33	29	17
18	1.7	0.5	O	0.0	205 *	31	25	48	70	24	46	31	18
19	1.2	0.3	W	596	167	19	11	64	74	16	40	22	19
20	0.9	0.2		774 *	137	1.4	82	84	57	28	52	1.9	20
21	0.5	0.1		620	95	1.8	120	91	42	35	7.9	19	21
22	47	0.0		549 *	130	33	73	102	104	16	5.6	19	22
23	54	0.0		172	317	55	66	81	90	22	7.6	2.8	23
24	39	0.0		76	990	64	72	102	40	19	18	6.1	24
25	36	0.0		1240 *	998 *	66	40	132	75	22	11	18	25
26	6.1	0.0		1260	826	26	10	160	91	18	4.1	4.7	26
27	5.2	0.0		529	545	10	38	109	90	21	3.6	14	27
28	4.5	0.0		207	515	4.2*	52	86	64	44	9.3	19	28
29	4.3	0.0		148	91	87	71	105	97	15	16	37	29
30	3.2	0.0		80	91 *	102	27	70	110	9.4	34	42	30
31	2.9			80	80	66	77	77		19	78		31
MEAN	14.2	3.2		205	298	119	80.2	74.7	76.7	23.6	23.4	35.0	MEAN
MAX.	54	11		1260	998	829	191	160	126	69	78	93	MAX.
MIN.	0.5	0.0		0.0	26	1.4	10	3.9	14	9.4	3.6	1.9	MIN.
AC. FT.	876	189		12580	16550	7322	4770	4596	4566	1449	1438	2085	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	ACRE FEET	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
77.9		1840	9.61	1	25	1030	0.0		11	21	1800	6420

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO DH GAGE	REF. DATUM		
			CFS	GAGE HT	DATE			FROM	TO				
37 24 51	121 00 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-DATE		1957	1968	0.00	LOCAL USCGS		

Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs.

a Local datum then in use.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	374	711	519	975	13800	25900	15400	7850	15400	4980	1340	1580	1
2	384	736	514	902	13700	25000	15000	7230	15400	4780	1350	1530	2
3	411	751	508	845	13300	24600	14900	7180	15500	4640	1330	1530	3
4	384	662	522	758	13100	23600	14800	8880	15500	4540	1420	1580	4
5	428	638	536	692	13300	23700	14900	11000	15600	4410	1340	1660	5
6	403	659	530	632	13900	22600	15200	11600	16100	4270	1320	1650	6
7	365	653	503	582	13000	21600	15600	11600	16900	4150	1300	1670	7
8	339	597	490	558	17900	21400	17300	11000	18100	3970	1290	1870	8
9	317	555	477	534	20100	21300	17700	9580	19200	3490	1290	1940	9
10	319	522	474	525	20400	21300	17000	8800	20000	2980	1270	1950	10
11	295	514	490	508	19900	21300	16300	10200	20300	2640	1280	1900	11
12	313	500	495	514	19900	21300	16000	11800	20200	2430	1230	1800	12
13	426	525	495	594	19300	20800	15600	12500	19600	2160	1170	1790	13
14	544	549	519	752	18900	20100	14800	12600	18800	1980	1110	1780	14
15	592	597	547	1650	19200	19800	13800	12900	17800	1840	1050	1640	15
16	609	629	597	2820	19200	19500	13400	13200	16800	1780	1090	1590	16
17	629	677	632	3430	19400	19200	13100	13500	16000	1770	1240	1620	17
18	677	692	629	3580	20400	19000	12800	13600	15600	1710	1340	1450	18
19	561	677	621	3550	21200	18800	12700	13600	15300	1610	1320	1440	19
20	495	653	600	4260	22000	18800	12400	13600	14900	1550	1350	1400	20
21	498	638	569	5340	22600	18800	11800	13800	14100	1560	1360	1410	21
22	538	621	561	460	22300	18800	11200	14200	13400	1590	1360	1450	22
23	600	600	549	10100	22000	19400	10500	14400	12800	1590	1390	1440	23
24	600	600	547	11700	22600	19600	10100	14400	11700	1500	1430	1400	24
25	621	612	563	12500	25300	19300	9870	14500	10900	1440	1480	1270	25
26	641	609	592	12600	30000	19100	9540	14600	10500	1410	1430	1160	26
27	641	618	680	14600	30100	18900	9360	14600	9320	1420	1430	1120	27
28	665	595	1070	17500	28500	18600	9300	14800	7700	1460	1460	1110	28
29	677	569	1210	15600	18000	18000	9100	15000	6140	1390	1480	1090	29
30	662	544	1150	14600	17200	17200	8400	15200	5260	1380	1510	1100	30
31	683	506	1060	13900	16200	16200	8400	15300	4980	1340	1530	1100	31
MEAN	506	617	621	5308	19900	20440	13260	12360	14800	2508	1332	1529	MEAN
MAX	683	751	1210	17500	30100	29900	17700	15300	20300	4980	1530	1950	MAX
MIN	295	500	474	508	13100	16200	8400	7180	5260	1340	1050	1090	MIN
AC FT.	31800	36700	36180	326400	1105000	1257000	789200	759700	882300	154200	81900	91000	AC FT.

E - ESTIMATED
NR - NO RECORD
v - DISCHARGE MEASUREMENT OR
OBSERVATION OF FLOW
= - E AND =

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	GAGE HT	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
7670		30760	58.81	2	26	0850	289	38.29	10	11	0700	5553000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B L M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD				
			CFS	GAGE HT	DATE			FROM	TO	ZERO ON GAGE	REF DATUM	
37 20 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65					
								1959	1959	0.00	USED	
								1959		0.00	USGS	
										3.51	USED	

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.
Flows regulated by upstream reservoirs, and diversions.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.0	589	601	2950	8060	7370	6260	4990	8920	439	17	155	1
2	5.1	587	667	2570	5260	7270	5740	3730	8930	207	18	166	2
3	5.9	580	617	1560	7960	6980	4720	3080	8920	25	18	174	3
4	6.5*	593	628	1140	7740	5150	3560	2910	8790	292	22	212	4
5	6.2	588	1180	940	7460	3700	4220	2120	8800	854	11	107	5
6	5.6	609	1360 E	1700	7450	3350	5840	1800	9020	761	9.2	20	6
7	6.0	573*	1300 E	1250	5490	3340	6370	2600	9110	521	9.0	19	7
8	6.2	574	1230 E	1080	7300	3330	6880	3280	9110	419	9.2	18	8
9	6.4	574	1170 E	1070	7240	3330	6140	3480	9160	1250	9.2	17	9
10	6.6	242	1100 E	1000	7140	3340	4480	3390	9310	2430	9.7	21	10
11	6.7	37	1040 E	933	7090	3340	4480	3380	9310	1880	10	27	11
12	6.4	26	1140 E	537	7050	3340	4500	3370	9280	1560	10	21	12
13	7.0	18	1360 E	1180	6960	3340	4510	3610	9240	1550	10	20	13
14	20	14	1060 E	1270	6870	3340	4500	4310	9140	1140	11	19	14
15	44	16	860 E	1620	6820	3350	3950	6180	6850	3200	12	19	15
16	4.3	12	1260 E	1580	6800	3350	3070	7560	5180	3130	12	28	16
17	38	12	1520	1550	5850	2900	3260	8100	6120	1050	13	150	17
18	32	12	1490	1600	5080	2620	3300	8120	6580	426	13	171	18
19	32	13	1500	3960	6100	2620	3640	8170	4400	572	13	194	19
20	23	13	1790	6920	6050	2660	3950	8210	3420	1060	37	198	20
21	37	14	1840	8060	4940	3840	3790	8220	3310	1140	17	200	21
22	71	14	1800	7910	3970	4130	3560	8230	3270	303	14	198	22
23	428	14	1950	7850	4000	4090	3210	8250	4330	211	14	200	23
24	607	14	1660	8010	5260	4760	3720	8330	6120	200	12	204	24
25	601	14	1380	8410	7080	5330	4040	8340	6780	285	12	323	25
26	595	51	2290	28400*	7560	4320	4010	8400	5150	401	13	1210	26
27	592	413	3080	13200*	7490	3600	4050	8700	2610	324	94	1860	27
28	582	606	3070	9810*	7430	3600	3720	8860	922	64	111	1860	28
29	605	598	3040	8440	3790	3880	3880	8850	908	19	121	1720	29
30	590	603	3010	7810	5090	4620	3870	8870	640	20	132	1390	30
31	590	2990	7430		6320		8880			18	144		31
MEAN	181	267	1580 E	4895	6554	4093	4399	6010	6454	831	30.9	364	MEAN
MAX	607	609	3080	28400	8060	7370	6880	8880	9310	3200	144	1860	MAX.
MIN.	3.0	12	601	537	3970	2620	3070	1800	640	18	9.0	17	MIN.
AC.FT.	11120	15910	97200E	301000	364000	251700	261800	369600	384100	51080	1899	21660	AC.FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM				DISCHARGE	MINIMUM				TOTAL
2943	52200	186.29	1	26	1100	2.0	166.85	10	1	1130	2131000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E	52200	186.0	12-8-50 1-26-69	OCT 36-SEP 60 OCT 61-DATE		1937		1.76	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	73	723	711	3200	8520	7960	6770	5280	9220	457 E	127	233	1
2	74	722	715	3060	7070	7860	6150 *	4730	9250 *	266 E	127	233	2
3	76	752	787	1800	7140	7630	5790	3400	9250	256 #	120	265	3
4	78	700	742 *	1570	8340	6450	4080	3470	9180	307 E	120	303	4
5	80	724	836	1210	8280	4570	4230	2700	9100	1110 E	133	320	5
6	83	712	1500	1410 *	8280 *	3930 *	6190	2160 *	9250	1260	120	194	6
7	88 *	738 *	1500	1670	6700	3920	6320	2620	9340	1170	92	190	7
8	86	701	1330	1310	7740	3910	7050	3350	9340	768 E	92	138	8
9	88	700	1240	1170	8110	3930	6930	3940	9290	825 E	92	111	9
10	88	653	1040	1150	8020	3930	5040	3760	9420	2620	94	111	10
11	86	213	1170	989	7970	3930	4880	3760	9420	2580	91	106	11
12	103	153	1080	932	7910	3940	4860	3750	9390	2100	92	111	12
13	101	133	1240	769	7830	3930	4840	3860	9350	2100	98	113	13
14	106	122	1310	1570	7770	3940	4740	4280	9300	1510	98	111	14
15	152	130	803	1740	7740	3940	4580	6000	8400	2490	100	106	15
16	135	124	765	1650	7720	3930	3360	7260	5820	3780	100	106	16
17	137	119	1610	1600	7380	3720	3380	8160	6100 *	2370	104	111	17
18	133	114	1640	1580	5780 *	3160	3450	8210	7240	783	103	244	18
19	136	110	1590	2500	6940	3150	3600	8260	5640	727	98	290	19
20	129	108	1760	7050 *	7030	3150	4110	8310 *	3900	1250	98	334	20
21	126	109	2110	8590	6480	3960 *	4090	8360	3760	1420	113	348	21
22	119	107	2000	8630	4830	3920	3920	8390	3680	946	116	348	22
23	154	109	1950	8440	4870	4700	3480	8450	4190	441	106	352	23
24	643	110	2070	8490	5450	4870	3630	8480	5930	418	101	362	24
25	695	110	1640	9150	8050	6000	4220	8580	7200	384	101	402	25
26	706	112	1880	20600 *	8150	5220	4200	8630	6450	617	101	782	26
27	709	123	3270	19100 *	8000	4170	4500	8780	4080	702	96	1790	27
28	700	638	3320	11000 *	7960	4140	4030	9030	1450	362 *	161	1820	28
29	718	699	3290	9680	4140	4020	9080	1330	163	194	1850	29	29
30	738	712	3260	8700	5010	4630	9120	1200	131	200	1540	30	30
31	729		3230	8080	6320		9180		127	225			31
MEAN	260	376	1658	5109	7359	4650	4702	6237	6882	1124	117	444	MEAN
MAX.	738	752	3320	20600	8520	7960	7050	9180	9420	3780	225	1850	MAX.
MIN.	73	107	711	769	4830	3150	3360	2160	1200	127	91	106	MIN.
AC. FT.	16010	22370	101900	314200	408700	285900	279800	383500	409500	69100	7166	26430	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- END *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
3211		38600	87.10	1	26	2000	69	68.47	10	1	0000	2325000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36		1932		-1.13	USCGS
						JAN 37-MAR 37					
						JUL 37-FEB 38					
						JUL 38-DEC 38					
						MAR 39-DATE					

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	804130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	58	14	12	67	211	921	36	102	135	135	67	217	1
2	58	15	12	52	173	699	46	92	135	145	93	150	2
3	58	41	12	44	152	322	48	86	139	82	76	179	3
4	59	154	12	40	122	259	48	77	131	71	79	178	4
5	61	86	12	37	104	192	61	80	131	61	83	157	5
6	69	45	12	35	143	156	529	79	138	63	84	79	6
7	82	29	12	33	559	125	429	78	143	62	76	85	7
8	78	21	12	31	241	104	177	97	143	72	77	88	8
9	66	19	12	30	159	89	88	135	141	70	78	97	9
10	60	18	12	31	124	79	59	156	118	67	84	90	10
11	66	17	12	31	115	119	51	157	102	143	92	81	11
12	79	17	12	30	167	94	51	149	107	155	88	75	12
13	85	16	12	30	352	79	54	143	152	163	74	79	13
14	122	16	14	1810	191	112	56	147	153	158	76	78	14
15	109	38	26	1750	185	91	51	134	164	131	68	86	15
16	62	84	47	317	1030	70	54	130	162	111	75	153	16
17	39	40	95	170	446	62	58	125	153	131	86	155	17
18	33	31	87	130	897	58	65	161	156	136	89	146	18
19	27	33	38	674	2060	51	60	154	142	82	80	151	19
20	26	23	26	3080	1210	48	60	141	132	79	74	166	20
21	24	20	20	2350	464	44	62	137	140	82	84	178	21
22	18	18	18	4540	323	191	69	138	132	88	79	188	22
23	16	15	16	1060	310	99	64	132	137	88	70	193	23
24	16	14	16	425	1530	59	76	127	116	74	72	201	24
25	14	13	26	1740	2920	44	80	125	121	84	67	164	25
26	13	13	35.2	4460	1680	37	71	125	115	104	69	83	26
27	15	13	934	2840	1060	35	85	135	114	122	82	82	27
28	15	13	239	704	402	31	97	166	118	132	89	90	28
29	15	12	144	722	26	109	109	149	116	82	145	94	29
30	15	12	135	397	25	111	111	138	129	81	146	89	30
31	15		97	261	24			154		82	167		31
MEAN	47.3	30.0	80.4	901	619	140	97.0	127	134	101	86.8	130	MEAN
MAX.	122	154	940	4540	2920	921	529	166	164	163	167	217	MAX.
MIN.	13	12	12	30	104	24	36	77	102	61	67	75	MIN.
AC FT.	2906	1785	4943	55380	34370	8622	5762	7833	7964	6220	5338	7720	AC FT.

E - ESTIMATED
 NR - NO RECORD
 + - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
206		6613	87.18	1	22	0200	11	67.70	12	13	0100	148800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE 24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCCS

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	278	723	126	3020	6460	8520	5990	4450	9290	1420	715	449	1
2	284	726	750	2980	8410	8850	6200	4760	9330	1300	697	498	2
3	280	814	790	2770	6780	8320	6090	3910	9410	1090	604	461	3
4	282	833	821	1980	7680	7380	5240	3100	9470	879	449	510	4
5	288	833	808	1630	8180	5770	4550	2950	9510	818	414	661	5
6	290	786	920	1380	8270	4400	5140	2510	9540	1290	405	535	6
7	290	759	1330	1600	8430	3800	6310	2270	9730	1410	356	395	7
8	304	756	1340	1620	7170	3910	6330	2860	10000	1240	319	590	8
9	302	738	1250	1410	7960	3880	6600	3400	10100	1220	346	226	9
10	296	732	1210	1330	8300	3870	6020	3630	10100	1630	356	142	10
11	300	693	1130	1300	8100	3660	5010	3690	10300	2370	273	147	11
12	333	467	1130	1210	8110	3910	4810	3710	10200	2260	258	135	12
12	312	370	1120	1070	8100	3920	4920	3900	10100	2040	201	116	12
14	366	338	1320	1540	7930	3880	4850	4180	10100	2020	207	124	14
15	440	355	1210	3740	7850	4020	4820	4910	9840	1820	207	100	15
16	386	346	990	2700	8010	3970	4460	6200	8280	2550	166	112	16
17	338	335	1140	2200	8380	3910	3930	7200	6710	2400	189	161	17
18	312	310	1560	2170	7210	3820	3880	7930	7110	1890	175	135	18
19	294	304	1610	2300	7820	3530	3980	8730	4580	1220	131	697	19
20	278	296	1600	5420	8230	3490	4100	8440	7000	1270	151	590	20
21	266	292	1750	9050	7520	3680	4230	8570	4930	1490	138	719	21
22	260	292	1910	10900	6350	4220	4130	8680	4710	1530	138	701	22
22	251	292	1880	10200	5170	4570	3980	8730	4580	1220	131	697	22
24	245	290	1950	9020	5530	4410	3680	8760	5400	1020	127	715	24
25	477	292	1930	9100	8130	4800	3920	8830	6650	1100	116	715	25
26	625	292	1750	13000	9750	5120	4310	8850	7150	1070	97	647	26
27	659	292	2800	29100	9930	4420	4200	8880	6250	1200	94	1050	27
28	688	304	3390	16000	8860	4230	4260	9030	3990	1290	120	1910	28
29	696	562	3150	11800	4170	3920	9180	2040	981	166	2090	29	29
30	714	696	3110	10400	4400	4030	9220	1740	802	201	2080	30	30
31	726		3080	9180	5250		9250		737	304			31
MEAN	383	504	1595	5843	7879	4712	4791	6127	7700	1441	268	591	MEAN
MAX.	726	833	3390	29100	9930	8850	6600	9250	10300	2550	715	2090	MAX.
MIN.	245	290	726	1070	5170	3490	3680	2270	1740	737	94	100	MIN.
AC FT.	23520	29990	98090	359200	437600	289700	285100	376800	458200	88620	16450	35170	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OBSERVATION OF NO FLOW
 - E AND *

MEAN DISCHARGE		MAXIMUM DISCHARGE				MINIMUM DISCHARGE				TOTAL ACRE FEET		
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
3451		37900	42.86	1	27	0845	75	24.69	8	27	0400	2499000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD			
			CFS	GAGE HT.	OATE			FROM	TO	ZERO ON GAGE	REF DATUM
37 36 12	121 07 50	NW 7 4S 8E	46.65	12-	9-50	1930-DATE		1960	1959	0.00	USED
			43.15a	12-	9-50			1960		0.00	USCS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and ari diversions.
 a Reflects present datum.
 b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	816	1500	1410	3960	23700	39800	22100	13200	25700	8270	1930	2140	1
2	795	1530	1410	3860	24200	37500	21800	13200	25600	6690	1880	2170	2
3	812	1650	1420	3740	22800	35300	21200	12400	25200	6120	1790	2140	3
4	859	1680	1450	3140	21200	33300	20700	11200	24800	5870	1780	2150	4
5	894	1630	1460	2730	22200	31500	19800	10900	24600	5590	1780	2290	5
6	942	1570	1500	2410	22300	29000	19800	11900	24600	5540	1580	2350	6
7	942	1560	1800	2370	22400	26900	21200	12400	25100	5840	1560	2430	7
8	911	1540	1930	2540	22500	25700	22600	13300	25800	5610	1500	2720	8
9	872	1480	1880	2300	24300	25100	24200	14200	26900	5390	1500	2710	9
10	829	1430	1840	2280	26800	25900	24900	14200	28200	5200	1570	2670	10
11	820	1390	1770	2210	27300	26200	23800	13800	29000	5500	1540	2690	11
12	829	1220	1780	2170	27100	26400	22300	13700	29800	5420	1290	2650	12
13	983	1060	1750	2110	27100	26800	21400	14500	29800	4900	1180	2470	13
14	1220	1030	1600	2260	27800	26100	20500	15500	29100	4610	1200	2470	14
15	1480	1090	1990	3190	27800	25400	20100	16100	28300	4360	1000	2410	15
16	1450	1100	1770	3490	27900	24600	19100	17400	26300	4430	865	2310	16
17	1330	1120	1740	3600	28300	24100	17900	19000	22900	5200	1070	2350	17
18	1190	1120	2150	3660	28300	23500	17200	20400	21400	4670	1370	2300	18
19	1110	1130	2320	3710	28400	22800	16800	21300	21300	3740	1600	2220	19
20	987	1100	2300	4300	30400	22500	16600	21600	20300	3370	1580	2360	20
21	898	1080	2340	8120	31900	22300	16700	22000	18700	3580	1650	2390	21
22	876	1060	2480	15200	31100	22700	16500	22500	18000	3730	1690	2410	22
23	907	1050	2480	20300	30300	23700	15800	22800	17600	3460	1690	2410	23
24	938	1030	2500	18700	29200	24600	15100	23400	17200	2930	1720	2340	24
25	1050	1020	2580	20300	33500	24700	14600	23800	17700	2640	1940	2300	25
26	1270	1040	2460	22600	37500	25300	14600	24400	18300	2460	1830	2260	26
27	1340	1030	2890	31500	39700	24900	14400	24600	18400	2630	1720	2320	27
28	1400	1040	3900	34400	41800	23900	14300	24800	16600	2710	1740	3090	28
29	1430	1200	4080	33800		22900	13700	25000	13100	2540	1860	3450	29
30	1460	1370	4100	28800		22300	13400	25500	10200	2140	2000	3570	30
31	1470		4050	25700		21900		25800		2060	2030		31
MEAN	1068	1262	2230	10300	28060	26370	18770	18220	22680	4426	1595	2485	MEAN
MAX.	1480	1680	4100	34400	41800	39800	24900	25800	29800	8270	2030	3570	MAX.
MIN.	795	1020	1410	2110	21200	21900	13400	10900	10200	2060	865	2140	MIN.
AC. FT.	65670	75090	137100	633600	1559000	1622000	1117000	1120000	1350000	272100	98050	147800	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
11320		42800	36.46	2	28	0400	782	14.81	10	3	0000	8197000

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF DATUM
				CFS	GAGE HT.		DATE	FRDM	TO			
37 38 28	121 13 37	SW29 3S 7E	42,800	36.46	2-28-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943	1959	0.00	USED	
								1959		0.00	USC&S	
								1959		3.41	USED	

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Maximum discharge shown does not reflect the maximum gage height. Due to a backwater condition caused by the Stanislaus River, the maximum gage height was 37.00 feet and occurred at 2400 hours on 2-28-69.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	69 *	106	329	7440	5120	2860	2290	8720	891	49	45	1
2	18	70	100	468 *	5030	4840	2650 *	2340	8750 *	565 *	45	43 *	2
3	22	104	158 *	476	4870	4680	2500	2370	6810	245	42	50	3
4	23 *	104	120	467	4330	4130	2500	2360	8720	1040	39 *	58	4
5	25	78	102	460	3480 *	4150	2960	2410	8480	1110	39	52	5
6	26	93	110	460	3670	4080	3840	2410 *	8040	481	40	64	6
7	26	110	98	579	3250	3970	3740	2430	8350	774	44	68	7
8	24	98	112	972	3610	3840	3740	2460	6640	540	49	62	8
9	25	108	107	990	3650	3690	3760	2620	6210	260	46	47	9
10	27	102	100	1590	3790	3740 *	3870	3040	5080	255	46	40	10
11	26	104	118	1340	4670	3440	3900	6940	3210	285	45	40	11
12	33	110	112	1580	5660	3040	3230	7180	1990	510	53	42	12
13	33	104	98	2290	5170	2530	3110	7680	1230	518	49	38	13
14	35	104	135	3290 *	5000	2370	2910	7970 *	677	508	49	38	14
15	36	158	133	2690	5240	3540	2710	8280	648	1070	46	37	15
16	30	125	195	2460	4950	3470	2630	8360	1980	452	45	42	16
17	25	98	124	2360	4730	3410	2620	8360	4100 *	97	44	44	17
18	32	114	124	2090	5410	3310 *	2540	8360	3490	80	45	41	18
19	80	114	102	4380 *	5070	3220	2410	8340	3260	66	47	46	19
20	80	114	114	7990 *	4900	3140	2410	8240	3260	54	54	37	20
21	82	104	114	22800 *	4510	3140	2360	8120	2980	47	49	36	21
22	82	91	114	16800	4120	3010	2340	8380	2680	50	45	39	22
23	74	102	114	8430 *	4670	2960	2300	8440	2430	44	44	62	23
24	72	108	122	7300	5760	2590	2340	8380	2050	45	47	770	24
25	75	110	225	10600 *	5590	2160	2360	8350	1420	47	50	1050	25
26	74	110	354	16200 *	5450	2460	2390	8450	720	45	49	1160	26
27	74	98	146	12700	5060	2460	2410	8420	161	44	46	1240	27
28	72	106	126	8850 *	5060	3120	2370	8540	112	42	52	1240	28
29	69	106	131	8360		3770	2280	8750	105	44	53	1190	29
30	84	108	116	8310		3660	2270	8730	107	42	54	703	30
31	78		107	8310		3260		8630		44	49		31
MEAN	47.7	104	130	5367	4791	3430	2810	6376	3711	332	46.9	281	MEAN
MAX.	84	158	354	22800	7440	5120	3900	8750	8750	1110	54	1240	MAX.
MIN.	18	69	98	329	3250	2160	2270	2290	105	42	39	36	MIN.
AC FT.	2936	6196	8011	330000	266100	210800	167200	392000	224900	20400	2884	16710	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
2277		28800	31.11	1	21	1400	18	1.27	10	2	0300	1648000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39					117.21 USCGS
						APR 40-DATE					

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	803115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	203	177	189	225	a	4920	3480	2350	a	645	318	358	1
2	230	179	189	234	a	5010	3120	2380	a	999	337	340	2
3	261	192	186	367	5640	4920	2870	2470	a	921	392	349	3
4	238	241	187	436	5300	4730	2710	2540	a	670	354	363	4
5	249	268	205	462	4910	4360	2770	2590	a	1130	322	358	5
6	250	234	202	474	4080	4200	3340	2520	a	1280	348	366	6
7	265	208	191	485	3900	4100	3890	2560	a	961	335	423	7
8	238	200	190	528	3580	3980	3870	2520	6410	1010	337	508	8
9	233	201	185	817	3630	3850	3860	2580	6090	861	303	506	9
10	213	197	187	948	3670	3730	3840	2650	5900	717	312	474	10
11	207	196	191	1320	3790	3680	3950	3100	5490	660	345	427	11
12	205	197	189	1350	4330	3510	3980	4760	4260	641	352	390	12
13	248	202	192	1500	5120	3150	3660	6190	2760	791	352	374	13
14	339	202	201	2000	5180	2670	3490	a	1800	851	296	420	14
15	389	208	207	3060	5000	2630	3240	a	1350	782	318	430	15
16	376	240	225	2750	5110	3330	3000	a	1230	1110	319	440	16
17	309	252	264	2530	5040	3380	2850	a	802	2340	329	410	17
18	259	225	259	2410	4900	3330	2830	a	4000	555	340	384	18
19	221	207	225	2300	5260	3260	2730	a	3790	495	325	439	19
20	193	206	211	3630	5270	3180	2610	a	3550	454	302	477	20
21	187	203	201	5450	5100	3130	2700	a	3500	452	306	461	21
22	187	201	197	a	4820	3090	2640	a	3280	395	299	481	22
23	187	196	195	a	4450	2970	2550	a	3040	393	262	400	23
24	192	190	197	a	4720	2900	2540	a	2700	362	357	385	24
25	183	190	206	a	5330	2600	2510	a	2330	393	377	644	25
26	179	191	236	a	5530	2300	2550	a	1820	405	328	1080	26
27	173	193	350	a	5280	2450	2560	a	1250	447	373	1200	27
28	173	191	367	a	5010	2510	2560	a	862	452	325	1360	28
29	177	187	300	a	a	3110	2460	a	795	393	316	1420	29
30	179	190	263	a	a	3710	2400	a	683	374	398	1390	30
31	179	190	241	a	a	3740	a	a	a	342	390	a	31
MEAN	230	205	220			3498	3052			669	335	569	MEAN
MAX.	389	268	367			5010	3980			1280	398	1420	MAX.
MIN.	173	177	185			2300	2400			342	282	340	MIN.
AC FT.	14130	12230	13540			215100	181600			41140	20600	33830	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND #
 a - SEE (a) BELOW

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL ACRE FEET			
DISCHARGE		DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME		
		48.78		1	22	1200	168	27.48	10	28	0700		

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M O B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM	
				CFS	GAGE HT	DATE			FROM	TO			
37 41 57	121 10 08	SW 2 3S 7E		50.5		12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USCGGS	
									1963		0.37	USCGGS	

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions.

a Water bypasses station by overflowing flood plain on right bank and discharge is not computed. Overflowing occurs at approximately 45 feet gage height.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	104	154	1700	4320	31000	47600	35500	16900	33500	11200	2370	2700	1
2	191	336	1690	4220	29900	46200	25300	16900	31500	10100	2410	2700	2
3	111	212	1700	4160	28700	44200	24700	16800	33600	9450	2460	2660	3
4	111	210	1740	3690	27000	41800	24100	16100	33600	8500	2450	2710	4
5	118	2100	1750	3230	26900	39300	23400	15900	33600	8260	2340	2790	5
6	226	2020	1800	2880	26900	36400	23200	16400	33600	8660	2250	2880	6
7	124	1980	2070	2780	27000	34000	24300	16700	33600	8540	2220	2980	7
8	119	1940	2240	2990	27300	32200	25400	16900	33800	8110	2210	3250	8
9	113	1870	2190	2950	28100	31000	26600	17200	34100	7650	2210	3300	9
10	112	1830	2140	3000	30000	30400	27400	17400	34500	6860	2230	3260	10
11	112	1780	2080	3200	31500	3000	27000	17200	35000	6910	2280	3250	11
12	1040	1620	2080	3320	31900	29900	26000	17800	34900	6930	2170	3210	12
13	127	1390	2040	3340	32400	29800	25100	19600	34000	6490	2140	3120	13
14	1630	1330	2140	3580	32900	29200	24400	21300	32600	6080	2090	3150	14
15	1970	1410	2320	3220	32800	28400	23700	23000	31200	5620	2040	3160	15
16	200	1440	2120	700	32600	26100	22600	25100	29000	5700	1990	3070	16
17	182	1500	2070	7560	32900	27900	21500	27200	27300	6640	2110	3090	17
18	1630	1500	2420	7650	32900	27300	20600	29000	26200	5910	2280	3090	18
19	1490	1470	2610	7770	32900	26700	21200	30300	26200	4350	2320	3000	19
20	1330	1440	2580	9350	34200	26300	19900	30900	25600	3750	2320	3200	20
21	1180	1400	2590	14000	35200	26000	19900	31200	24100	3790	2320	3260	21
22	1120	1380	2730	23100	35300	26000	19700	31300	22900	3830	2330	3300	22
23	1150	1350	2740	29600	34200	26400	19100	31500	21700	3630	2320	3270	23
24	1210	1310	2750	27200	33600	26800	18400	31900	20800	3140	2420	3200	24
25	1290	1280	2640	26300	34800	27100	17900	32200	20500	2940	2580	3240	25
26	1560	1290	2760	29100	38800	27200	17700	32400	20600	2820	2500	3480	26
27	1660	1290	3060	41700	44000	27100	17700	32400	20000	2950	2440	3590	27
28	1720	1290	4180	39000	45600	26500	17700	32500	17900	3020	2470	4190	28
29	1770	1410	4460	36800	26000	17400	32700	15200	2930	2500	4680	29	29
30	1800	1650	4490	35000	25800	17100	33000	12800	2670	2620	4850	30	30
31	1810		4440	32600	25550		33300		2520	2670		31	31
MEAN	1384	1604	2533	13810	32550	30870	22120	24610	27890	5803	2325	3255	MEAN
MAX	2000	2100	4490	41700	45600	47600	27400	33300	35000	11200	2670	2680	MAX
MIN	1010	1280	1690	2780	26900	25500	17100	15900	12800	2520	1990	4850	MIN
AC FT	85117	95460	155700	849400	1638000	1898000	1316000	1513000	1659000	356800	142900	193700	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E.A.C.

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
13920		52600	34.55	1	27	2200	1010	10.48	10	2		1007000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECDRD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-8-50	JUL 22-DEC 23		1931	1959	6.4	USED
			52600	34.55	1-27-69	JAN 24-FEB 25		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 1.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	227	417			400				1
2				0	122	361			1000				2
3				0	91	361			2620				3
4				0	91	350			2850				4
5				0	116	345			3140				5
6				0	172	325			3480				6
7				0	169	300			3740				7
8				0	140	265			3730				8
9				0	134	220			3737				9
10				0	76	235			3849				10
11				0	55	213			3900				11
12	N	N	N	0	55	191	N	N	3890	N	N	N	12
13				0	55	169	O	O	3850	O	O	O	13
14				0	55	149			3930				14
15				0	55	159			3900				15
16	F	F	F	0	55	167	F	F	3824	F	F	F	16
17	L	L	L	0	55	175	L	L	3800	L	L	L	17
18	O	O	O	0	55	170	O	O	3640	O	O	O	18
19	W	W	W	0	55	160	W	W	3506	W	W	W	19
20				59	55	110			3330				20
21				560	55	105			3030				21
22				276	55	105			3490				22
23				238	55	100			2001				23
24				57	811	96			1440				24
25				608	2200	0			1060				25
26				773	2800	0			1000				26
27				1092	1025	0			600				27
28				448	817	0			200				28
29				253	0	0			200				29
30				242	0	0			50				30
31				179	0	0							31
MEAN				154	347	169			2640				MEAN
MAX.				1092	2800	417			3930				MAX.
MIN.				0	55	0			50				MIN.
AC FT.				9491	19250	10410			157100				AC FT.

E - ESTIMATED
NR - NO RECORD
+ - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM				TOTAL
271	DISCHARGE 4110 GAGE HT 6 MO 12 DAY 0400	DISCHARGE 0	GAGE HT 10	DAY 1	TIME 0000	ACRE FEET 196200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 10	119 50	20S 19E	4102a		6-12-69	1937-DATE					

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

a Maximum discharge since 1950.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	CO2602	CROSS CREEK BELOW LAKELAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	2118	3050	0.0	385	1167				1
2				0.0	2025	3016	0.0	395	1349				2
3				0.0	1974	2919	0.0	430	1472				3
4				0.0	1819	2441	0.0	490	1551				4
5				0.0	1435	1701	0.0	515	1689				5
6				0.0	879	1257	84	515	1848				6
7				0.0	580	1249	351	480	1575				7
8				0.0	810	1380	624	455	2099				8
9				0.0	1310	1676	825	490	2158				9
10				0.0	1320	1868	1035	520	2170				10
11				0.0	1250	1839	1103	530	2089				11
12	N		N	0.0	1337	1805	1040	525	1869	N	N	N	12
13	O	O	O	0.0	1386	1786	1035	505	1200	O	O	O	13
14				0.0	1230	1753	1095	410	436				14
15				0.0	970	1559	1096	365	98				15
16	F	F	F	0.0	740	1236	1013	350	0.0	F	F	F	16
17	L	L	L	0.0	795	1062	928	345	0.0	L	L	L	17
18	O	O	O	0.0	750	1032	858	340	0.0	O	O	O	18
19	W	W	W	0.0	580	784	803	335	0.0	W	W	W	19
20				0.0	510	441	768	285	0.0				20
21				313	581	314	727	240	0.0				21
22				484	607	301	669	225	0.0				22
23				951	605	309	614	342	0.0				23
24				661	663	275	575	460	0.0				24
25				123	1345	214	578	510	0.0				25
26				323	3270	167	595	535	0.0				26
27				1695	4030	115	581	600	0.0				27
28				2550	3314	41	517	575	0.0				28
29				2625		0.0	420	730	0.0				29
30				2336		0.0	354	985	0.0				30
31				2210		0.0		1080					31
MEAN				460	1365	1148	610	482	759				MEAN
MAX				2625	4030	3050	1103	1080	2170				MAX.
MIN				0.0	510	0.0	0.0	225	0.0				MIN.
AC.FT.				28310	75830	70590	36270	29650	45160				AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL				
DISCHARGE	DISCHARGE	GAGE HT.	NO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
395						1.0		10	1	00.0	285800

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	DATE	DF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
				CF5	GAGE HT			FRDM	TD			
36 12 42	119 34 05	NE 10 20S 22E										
Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District. The flows for the 1969 water year were compiled at Nevada Avenue, as the station directly below Lakeland Canal No. 2 was inoperative during the flood of 1969.												

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	CD3913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6												0	6
7												0	7
8												0	8
9												0	9
10												0	10
11												0	11
12	N	N	N	N	N	N	N	N	N	N	N	0	12
13	O	O	O	O	O	O	O	O	O	O	O	0	13
14												0	14
15												0	15
16	F	F	F	F	F	F	F	F	F	F	F	7	16
17	L	L	L	L	L	L	L	L	L	L	L	11	17
18	O	O	O	O	O	O	O	O	O	O	O	12	18
19	W	W	W	W	W	W	W	W	W	W	W	12	19
20												11	20
21												10	21
22												10	22
23												10	23
24												10	24
25												10	25
26												10	26
27												10	27
28												10	28
29												10	29
30												10	30
31												10	31
MEAN												5.1	MEAN
MAX.												12	MAX.
MIN.												0	MIN.
AC FT.												303	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
0.8		12	0.38	9	18	0001	0		10	1	0000	303

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LDNGITUDE	1/4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FRDM	TO			
36 05 00	119 04 50	SW20 21S 27E						MAY 50-DATE				

These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1										0	0	100	1
2										0	0	102	2
3										0	0	102	3
4										0	0	93	4
5										0	0	90	5
6										0	0	89	6
7										0	0	88	7
8										0	0	89	8
9										0	0	89	9
10										0	0	89	10
11										0	0	89	11
12	N	N	N	N	N	N	N	N	N	0	0	89	12
13	O	O	O	O	O	O	O	O	O	0	0	89	13
14										0	0	89	14
15										0	30	89	15
16	F	F	F	F	F	F	F	F	F	0	89	79	16
17	L	L	L	L	L	L	L	L	L	0	90	75	17
18	O	O	O	O	O	O	O	O	O	0	90	66	18
19	W	W	W	W	W	W	W	W	W	0	89	90	19
20										0	26	90	20
21										0	0	90	21
22										0	33	84	22
23										0	100	56	23
24										0	100	46	24
25										31	100	42	25
26										100	99	40	26
27										100	157	45	27
28										97	128	50	28
29										96	108	50	29
30										62	100	50	30
31										0	100		31
MEAN										16	46	78	MEAN
MAX.										100	157	102	MAX.
MIN.										0	0	40	MIN.
AC FT.										964	2854	4659	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - END *

MEAN		MAXIMUM				MINIMUM				TOTAL											
DISCHARGE	11.7	DISCHARGE	190	GAGE HT.	2.07	MO.	8	DAY	27	TIME	1000	DISCHARGE	0	GAGE HT.	10	DAY	1	TIME	0000	ACRE FEET	6477

LOCATIDN			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 J4 25	119 15 15	NW29 21S 27E						MAY 50-DATE			

These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	73.0	1830 *	2791	1136	532	510	298	321	93	1
2			0	65.0	1599 *	2780	321	538	516	289	335	90	2
3			0	37.0	1184 *	2780 *	43	543	566	294	351	93	3
4			0	0	684 *	2768	23	549	589	302	346	90	4
5			0	0	543 *	2360 *	601	471	560 *	307	335	97	5
6			0	0	649 *	1480 *	952	341	494	316	316	103	6
7			0	0	1072 *	1281	1048	330	437	307	298	107	7
8			0	0	1254 *	1263	1245	321	437	302	298	111	8
9			0	0	1272	1263	1451	307	426	307	294	115	9
10			0	0	1056	1236 *	1470 *	289	361	321	298	119	10
11			0	0	635 *	1236	1470	298	341	335	307	115	11
12	N		0	0	608	1192	1490	285	267	335	325	111	12
13	O	N	0	0	595	1080 *	1490	178	204	335	346	111	13
14			0	0	578	976	1480	123	191	325	351	123	14
15			0	43.0	572	824	1490	174	187	302	311	136	15
16	F	F	0	111.0*	566	831	1500	195	178	298	298	128	16
17	L	L	0	83.0	560	831 *	1490	200	195	298	298	97	17
18	O	O	0	63.0	572	838	1327	191	204	311	311	80	18
19	W	W	0	90.0	584	831	1184	191	200	330	330	80	19
20			0	217.0*	595	852	1176	174	195	346	253	87	20
21			0	258.0	747	845 *	1048 *	191	204	341	213	93	21
22			0	285.0	928	873	880	271	213	335	191	97	22
23			0	187.0*	1272	904	866	341	204	346	178	78	23
24			0	191.0	1480	904	824	351	195	335	178	49	24
25			0	399.0	2597 *	912	775	377	271	346	182	43	25
26			0	1638.0	2803 *	904	775	372	321	351	140	40	26
27			0	2034.0	2904	904	775	437	330	356	174	37	27
28			5.0	1688.0	2891	888	768	468	330	356	132	45	28
29			73.0	1790.0		896	698 *	538	325	351	107	47	29
30			93.0*	1989.0		896	595	549	307	330	100	43	30
31			100.0	1820.0		984		526		307	97		31
MEAN			8.7	421.3	1165.4	1271.1	1013.0	344.2	325.3	323.0	258.5	88.6	MEAN
MAX.			100	2034	2904	2791	1500	549	589	356	351	136	MAX.
MIN.			0	0	543	824	23	123	178	289	97	37	MIN.
AC.FT.			538	25906	64722	78156	67281	21166	19355	19859	15896	5272	AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - END *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
429.8	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	311,151

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT	DATE			FRDM	TO		
36 04 40	119 06 22	NW 30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL LOCAL
								1959		-3.48	

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.1	15.8	0	18.9			0	9.0	10.4	9.0	20.6	14.2	1
2	8.7	15.8	0	18.6			0	9.0	10.4	10.7	20.0	14.5	2
3	7.7	16.8	0	17.8			0	8.7	10.4	11.6	19.6	14.5	3
4	8.7	16.8	0	17.8			0	6.5	10.4	11.9	20.0*	14.6	4
5	8.7	6.9	0	18.6			0	6.8	10.4	11.6	20.0	14.8	5
6	8.4	0	0	19.3*			0	7.8	10.4	11.0	20.0	14.8	6
7	7.5*	0	0	20.3			0	7.8	10.0	11.3*	20.6	14.5	7
8	7.8	0	0	20.3			0	7.8	10.0	11.6	20.0	14.2	8
9	7.8	0	0	20.7			0	7.8	10.4	11.9	18.9	14.5	9
10	7.5	0	0	20.7			0	7.5	10.0	14.2	18.2	14.5	10
11	7.5	0	0	20.3			0	7.8	9.6	15.8	19.3	14.2	11
12	7.5	0	0	20.0	N	N	0	7.5*	9.3	15.5	20.3	14.5	12
13	8.4	0	0	20.3*	O	O	0	6.8	10.0	15.5	20.0	15.8	13
14	8.4	0	0	20.3			0	6.8	10.7	15.5	14.8*	16.8	14
15	2.8	0	0	16.5			0	6.8	10.7	15.2	12.9	17.5*	15
16	0	0	0	13.5	F	F	0	7.5	10.4*	16.8	14.8	16.2	16
17	0	0	0	14.8	L	L	0	8.7	9.6	17.8	14.5	14.2	17
18	0	0	0	14.5	O	O	0	10.0	9.6	17.5	14.2*	14.2	18
19	0	0	0	9.5	W	W	0	10.4	9.3	17.5	14.2	14.6	19
20	0	0	0	7.6			0	10.0	9.3	17.5	13.9	14.8	20
21	0	0	0	1.6			0	10.0	9.3	18.2*	14.8	15.5	21
22	0	0	0	0			0	10.4	9.6	18.9	13.5	15.8	22
23	0	0	0	0			0	10.4	9.6	20.3	11.9	16.2	23
24	0	0	0	0			0	10.4	9.3	21.0	12.2	16.2	24
25	0	0	0	0			7.4	10.4	9.3	21.3	11.9*	16.2	25
26	0	0	0	0			11.9	10.4*	9.3	21.0	9.6*	15.8	26
27	0	0	0	0			11.9	10.4	7.8	21.0	10.7	16.2	27
28	0	0	0	0			12.2*	10.0	8.7	20.7	9.6	16.5	28
29	5.7	0	0	0			11.9	10.4	8.7	20.7	12.9	16.2	29
30	15.2	0	11.3	0			10.0	10.4	8.4	21.0	13.2	15.8	30
31	15.8	0	19.3	0			10.7	10.7		20.7	13.5		31
MEAN	4.9	2.4	1.0	11.4			2.2	8.9	9.7	16.3	15.8	15.3	MEAN
MAX.	15.8	16.8	19.3	20.7			12.2	10.7	10.7	21.3	20.6	17.5	MAX.
MIN.	0	0	0	0			0	6.5	7.8	9.0	9.0	14.2	MIN.
AC. FT.	303	143	61	698			129	545	578	1000	972	910	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
7.4											3339

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT DNLT	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 02 48	118 56 54	NW 4 225 28E				AUG 42-DATE		OCT 62	OCT 62	0.00	LOCAL
										-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	114.0	73.0	21.9	4.	154.0	134.0	140.0	114.0	1
2				0	110.0	75.4	6.8	3.6	156.4	136.0	143.8	114.0	2
3				0	101.4	80.0	4.5	3.3	158.0	138.0	140.7	83.4	3
4				0	97.2*	76.4	4.6	2.9	156.0	138.0	140.0*	56.0*	4
5				0	105.2	78.0	77.2	2.5	156.7	144.0	140.0	94.0*	5
6				0	116.6	63.0	104.0	2.3	158.8	138.0	144.0	93.8	6
7				0	115.0	56.0*	102.8	2.2	158.0	140.0	140.0	52.4	7
8				0	114.0	54.0	105.2	2.1	158.0	142.0	138.0	52.4	8
9				0	112.4	49.6	105.2*	20.0	156.0	138.0*	136.0	51.4	9
10				0	109.0	60.4	105.2	53.0*	156.0	136.0	136.0	51.4	10
11				0	109.0	67.0	105.2	54.0	158.0	136.0	134.0	51.4	11
12	N	N	N	0	98.0	64.0	105.2	53.0	154.0	136.0	134.0	45.6	12
13	O	O	O	0	85.0	63.0	105.2	102.8	152.0	136.0	132.0	28.8	13
14				0	80.8	65.0	106.5	144.0	150.0	136.0	128.6	16.8	14
15				0	79.0	69.0	109.0*	150.0	148.7	136.0	130.0	8.6*	15
16	F	F	F	0	79.0	69.0	102.8	158.0	148.0	138.0	128.6	9.0	16
17	L	L	L	0	74.6	67.0	102.8	158.0	142.0*	138.0	132.0	14.3	17
18	O	O	O	0	84.2	69.0	102.8	156.0	128.6	138.0	136.0	12.1	18
19	W	W	W	55.8	82.6	69.0	104.0	152.0	127.0	140.0	136.0	12.1	19
20				136.0*	68.0	69.0	104.0	154.0	130.0	138.0	136.0	11.8	20
21				138.0	69.0	68.0	101.4	154.0	134.0	136.0	132.0	11.8	21
22				119.4	64.0	25.1	100.2	152.0	132.0	136.0	130.0	12.1	22
23				112.4*	54.0	5.4	99.2	156.0	132.0	142.0	130.0	11.8	23
24				110.0	51.4	3.9	98.0	150.0	132.0	148.0	128.6	11.0	24
25				121.0	68.0	3.2	98.0	144.0	132.0	148.0	130.0	10.6	25
26				100.2	51.4	2.9	99.2	152.0	132.0	150.0	125.6	14.1	26
27				90.2	82.6	7.8	99.2	154.0*	132.0	150.0	119.4	14.9	27
28				70.0	73.6	23.8	30.4	150.0	132.0	154.0	118.0	13.8	28
29				80.0	23.4*	5.2	150.0	150.0	132.0	148.0	114.0	13.8	29
30				102.8	23.4	4.4	148.0	134.0	136.0	136.0	112.4	13.4	30
31				110.0	22.4		152.0		140.0	140.0	114.0		31
MEAN				43.4	87.5	49.8	80.7	98.1	144.3	140.1	131.3	34.0	MEAN
MAX.				138.0	116.6	80.0	109.0	158.0	158.0	154.0	140.0	114.0	MAX.
MIN.				0	51.4	2.9	4.4	2.1	127.0	134.0	112.4	8.6	MIN.
AC FT.				2669	4858	3065	4800	6029	8584	8612	8075	2023	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 † - E AND †

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
67.3												46.15	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
36 03 29	118 59 08	SE31 21S 28E						JAN 42-DATE	1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0		0	0	8.4	0	7.9	4.6	1
2					0		0	0	8.4*	0	7.0	4.4*	2
3					0		0	0	8.4	4.8	6.1	3.7	3
4					0		0	0	8.4	6.0	6.2*	2.0	4
5					0		0	0	8.4	5.7	6.0	4.9	5
6					0.5		0	0	8.5	0.4	5.8	4.7	6
7					1.3		1.1	0	8.4	2.2	5.7	4.1	7
8					1.1		3.1	0	8.4	2.2	6.0	2.8	8
9					0.9		3.1*	0	8.4	3.8*	5.8	4.8	9
10					0.8		3.0*	0	8.4	11.0	5.7	4.8	10
11					0.7		1.9	0	8.5	11.6	5.7	4.1	11
12	N			N	0.3		0.4	0	8.6	11.6	5.8	2.5	12
12	O	N	O	O	0	N	0	0	8.8	11.9	5.8	3.8	12
14					0		0	2.3	8.8	13.6	5.5	4.1	14
15					0		0	3.3	8.9	15.0	5.6	3.2	15
16	F			F	0		0	6.9*	9.1*	12.7	5.5	3.1	16
17	L	F		L	0	F	0	8.1	8.8	11.3	5.5	6.5	17
18	O	L		O	0	O	0	8.1	8.9	11.8	5.6	4.4	18
19	W	O		W	0	W	0	8.0	9.7	11.2	5.6	3.6	19
20					0		0	7.9	10.0	10.7	5.7	4.5	20
21					0		0	7.7	10.8	10.8*	5.9	4.3	21
22					0		0	8.9	10.6	10.3	6.0	4.2*	22
23					0		0	10.3	10.8*	10.2	6.1	4.7	23
24					0.2		0	8.8	9.1	9.5	6.0	3.4	24
25					0.7		0	8.0	8.1	8.3	6.0	1.0	25
26					0		0	8.8*	8.0	5.6	5.4	3.2	26
27					0		0	8.8	5.0	0.8	4.2	6.6	27
28					0		0	8.6	0.2	3.3	0	5.5	28
29					0		0	8.5	0	6.7	1.8	5.3	29
30					0		0	8.8	0	6.6	4.6	5.0	30
31					0		0	8.6	0	7.6	4.6		31
MEAN					0.2		0.4	4.5	7.9	7.7	5.5	4.1	MEAN
MAX.					1.3		3.1	10.3	10.8	15.0	7.9	6.6	MAX.
MIN.					0		0	0	0	0	0	1.0	MIN.
A.C.F.T.					13		25	279	470	470	335	246	A.C.F.T.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2.5												1838

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
36 04 06	119 01 06	SE 26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.9			6.0	1.4	0	5.2	0.4		1.5	3.7	4.9	1
2	3.0			6.2	2.7	0	1.6	0.5		2.4	3.7	5.8*	2
3	3.1			5.0	2.8	0	1.2	0.5		2.4	3.7	5.9	3
4	3.0			4.2	2.5*	0	1.4	0.5		2.5	3.7	5.8	4
5	3.1			4.2	3.0	0	4.4	0.5		2.6	3.7	5.3	5
6	3.0			4.0*	4.9	0.9	4.9	0.6		2.4	3.7	6.5	6
7	2.7*			3.8	5.0	3.2*	5.0	0.6		2.6*	3.7	6.3	7
8	2.2			3.6	3.8	3.2	5.2	0.6		2.7	3.8	5.6*	8
9	2.7			3.6	3.8	3.1	5.3*	0.7		2.9	3.9	4.1	9
10	2.8			3.6	3.5*	4.1	5.3	0.6		3.0	3.9	4.1	10
11	2.7			0	3.6	3.3	5.2	0.7		3.0	3.9	4.2	11
12	2.7	N		0	3.6	3.3	5.2	0.7*		3.0	3.9	4.7	12
13	2.7	O		0	3.4*	3.3	5.2	4.5		2.8	4.8	5.3	13
14	2.6			0	3.8	3.3	4.9	4.4		2.8	5.7	5.4	14
15	0.6			0	4.0	3.2	4.7	4.3		2.7	5.4	5.5*	15
16	0	F		0	4.0	3.2	4.7	4.4		2.7	4.7	4.9	16
17	0	L		0	4.0	3.2	4.5	4.3		2.8	4.5	4.0	17
18	0	O		0	3.9	3.2	4.7	3.9		3.0	4.6*	3.8	18
19	0	W		0	2.7	3.2	4.8	3.9		3.1	4.9	3.9	19
20	0			0.2	2.2	3.3	4.7*	3.9		3.3	4.9	3.8	20
21	0			4.3	4.0	3.5	4.8	4.0		3.6*	5.4	3.8	21
22	0			4.3	3.9	3.6	4.9	4.0		3.7	5.3	3.8	22
23	0			4.5*	3.7	3.8	4.9	4.0		4.0	4.9	3.8	23
24	0			4.6	3.6	3.8	4.9	4.0		4.0	4.9	3.9	24
25	0			4.6	4.2	2.2	5.0	3.0		3.9	5.1	2.4	25
26	0			4.9	4.4	0	5.2	0.4		3.6	5.0	2.8	26
27	0			5.5	3.1	0	5.0	0.4		3.6	3.9	3.9	27
28	0			6.0	2.3	0	5.0	0.4		3.6	4.7	4.0	28
29	0			6.0	1.4	0	5.0	0.4		3.6	6.7	4.0	29
30	0			6.1*	1.2	0	4.9	0.4		3.6	6.1	4.0	30
31	0			6.1	0.8	0	5.0*	0		3.7	4.7	3.1	31
MEAN	1.3			1.8	3.6	3.0	3.8	3.5		3.1	4.6	4.5	MEAN
MAX	3.1			6.1	6.2	5.0	5.2	5.3		4.0	6.7	6.5	MAX.
MIN	0			0	0.8	0	0	0.4		1.5	3.7	2.4	MIN.
AC. FT.	79			113	222	164	234	206		189	281	270	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET	
DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRES FEET
2.5										1783

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECDR			DATUM OF GAGE		
LATITUDE	LDNGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE		1948		0.00	LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1969	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0		0	67.4	63.2	63.8	20.0	94.4	115.6	90.8	98.8	64.4	1
2	0		0	65.9	59.4	63.2	3.8	93.2	116.2*	90.8	98.2	62.2	2
3	0		0	42.4	54.5	64.4	0	93.8	111.0	90.8	98.2	38.6	3
4	0		0.2	9.2	40.0	64.9	4.9	93.8	112.6	90.2	98.2*	32.1	4
5	0		0.1	7.0	23.5	63.2	44.2	92.0	110.4	90.2	97.6	31.4	5
6	0		0	4.5	41.0	59.4	64.4	94.4	107.6	90.2	97.6	30.6	6
7	0		0	3.9	64.4	54.5*	66.9	98.2	105.2	90.8*	96.9	29.8	7
8	0		0	3.8	66.9	52.8	69.4	96.9	104.6	90.2	96.9	30.2*	8
9	0		29.8	3.5	66.4	53.4	66.4*	93.8	104.6	89.6	95.6	30.6	9
10	0		84.1	3.5	49.0*	52.4	65.9	84.6	104.6	89.6	95.6	33.9	10
11	0		77.2	3.6	25.5	51.5	67.9	80.6	104.0	89.0	96.2	40.6	11
12	0	N	80.0*	3.5	25.2	45.6	68.4	88.5	102.0	88.5	98.8	40.6	12
13	0	O	83.0	3.3	25.5	34.8	67.9	93.2	100.0	88.5	98.8	40.6	13
14	2.7		86.8	13.9	25.5	23.5	71.0	93.2*	99.4	88.5	97.6	40.6	14
15	0.9		86.8	64.4*	24.8	14.4	75.0	95.6	98.2	89.6	91.4	41.0*	15
16	3.7	F	87.9	71.0	24.5	13.7	80.0*	89.0	92.6*	89.0	79.0	38.6	16
17	3.3	L	87.3	68.9	24.1	13.7	82.4	86.8	90.8	88.5	80.0	35.2	17
18	0	O	89.6	65.9	24.1	13.9	85.1	90.8	92.6	89.6	75.0	33.9	18
19	0	W	90.8*	68.9	24.8	13.7	87.3	94.4	92.6	92.0	71.5	33.4	19
20	0		90.2	73.2	27.7	13.2	88.5	95.6	92.0	92.0	76.6	32.6	20
21	0		92.0	78.4	31.8	12.9	90.8	99.4	91.4	91.4*	84.1	31.8	21
22	0.9		92.0	73.2	32.1	13.9	91.4	102.6	92.0	92.6	82.4	31.8	22
23	0.7		92.6	52.8	31.8	15.2	91.4	98.8	91.4	97.6	77.2	31.8	23
24	0.5		92.6	46.1	31.8	14.9	92.0	98.8	90.8	96.9	76.6	31.8	24
25	0.4		93.8	43.4	38.2	14.9	92.0	100.0	91.4	99.4	76.5*	31.4	25
26	0.4		92.0	40.6	50.5	14.9	91.4	100.8	90.8	99.4	76.0	30.6	26
27	7.0		89.6	36.1	58.9	14.2	90.8	100.8	90.8	98.8	75.0	30.6	27
28	3.8		90.8	36.1	63.8	13.7	92.6*	102.6	90.8	98.8	70.0	30.2	28
29	0.7		90.8	49.0		13.7	90.2	107.6	90.8	99.4	64.4	29.8	29
30	0.7		90.2*	59.9		13.7	92.0	111.0	91.4	98.8	63.8	29.8	30
31	0		79.5	61.8		17.4		110.4		98.2	64.9		31
MEAN	0.6		63.5	39.5	40.0	31.9	69.8	96.0	98.9	92.6	85.4	35.7	MEAN
MAX	7.0		93.8	78.4	66.9	64.9	92.0	111.0	116.2	99.4	98.8	64.4	MAX
MIN	0		0	3.3	23.5	12.9	0	80.6	90.8	88.5	63.8	29.8	MIN
AC. FT.	39		3907	2430	2219	1963	4154	5902	5887	5692	5254	2123	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	
54.6											39570

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE		1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1							0	5.3	0.9	8.8	10.1	1.7	1
2							0	5.5	1.6*	12.0	6.5	2.8	2
3							0	6.0	1.8	11.1	4.3	3.4	3
4							0	7.2	1.6	7.1	5.6	3.6	4
5							0	6.2	1.2	4.9	5.6	3.4	5
6							0	5.5	0.9	4.2	5.7	3.7	6
7							0	5.4	3.6	4.2*	7.2	4.0	7
8							0	6.0	4.8	3.7	8.3	4.0	8
9							0	4.1	4.8	3.5	8.2	4.1	9
10							0	3.0	4.6	4.0	10.6	5.2	10
11							0	1.6	4.8	5.6	11.1	5.2	11
12	N	N	N	N	N	N	0	1.2*	5.9	5.6	11.6	6.4	12
13	O	O	O	O	O	O	0	0	7.8	5.7	11.8	8.6	13
14							0	0	9.2	5.8	10.8	9.3	14
15							0	0	9.3	7.4	5.7	9.3	15
16	F	F	F	F	F	F	0	0	16.4*	9.9	3.6	7.4	16
17	L	L	L	L	L	L	0	0	17.5	10.1	3.0	4.2	17
18	O	O	O	O	O	O	0	0	17.3	8.3	2.9*	2.4	18
19	W	W	W	W	W	W	0	0	16.7	8.1	2.9	2.4	19
20							0	0	15.8	9.7	6.2	2.5	20
21							0	3.1	4.2	8.6*	9.5	2.6	21
22							0	2.7	0.5	10.1	11.9	2.6*	22
23							5.5	3.9	2.3*	11.0	11.5	7.5	23
24							7.9*	5.8	2.4	11.0	11.0	2.5	24
25							3.8	6.2	1.1	10.9	9.1	2.5	25
26							0	6.3*	0.8	10.4	6.2	2.4	26
27							0	5.5	1.2	10.5	0	1.5	27
28							0	4.2	0.3	11.1	2.8	1.9	28
29							4.4	4.1	0.2	13.3	4.8	2.0	29
30							5.7	4.1	4.8	17.0	3.9	2.0	30
31								4.1		17.3	3.9		31
MEAN							0.9	3.5	5.5	8.7	7.0	3.9	MEAN
MAX.							7.9	7.2	17.5	17.3	11.9	9.3	MAX.
MIN.							0	0	0.2	3.0	0	1.5	MIN.
AC. FT.							54	212	326	536	429	230	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE		MAXIMUM DISCHARGE					MINIMUM DISCHARGE					TOTAL ACRE FEET	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
2.5												1787	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT.	DATE			FROM	TO			
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE			1942		0.00	LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03940	RHODES-FINE DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

NO FLOW
STATION DISCONTINUED
DITCH DESTROYED

E - ESTIMATED
NR - NO RECORD
+ - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND =

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M. D. B. & N.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 03 26	119 04 13	SE32 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 3.1 miles southwest of Porterville, approximately 3,100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	64.1	26.6	78.7	69.1	158.0	152.0				1
2			0	68.6	29.0	83.0	32.1	159.0	159.0*				2
3			0	40.0	27.8	83.0	29.8	159.0	163.0				3
4			0	0	16.7	83.0	29.4	152.0	161.0				4
5			0	0	21.7	61.6	57.4	142.0	161.0				5
6			0	0	38.1	60.0	76.1	135.0	159.0				6
7			0	0	68.1	78.7	80.9	134.0	159.0				7
8			0	0	75.0	78.7	84.6	133.0	160.0				8
9			0	0	70.2	83.0	82.0	129.0	159.0				9
10			0	0	55.2	83.0	83.0	122.0	163.0				10
11			0	0	23.1	83.0	83.0	118.0	163.0				11
12	N		0	0	39.5	83.0	83.0	116.0	162.0	N		N	12
13	O	O	0	0	56.3	84.1	86.2	117.0	165.0	O	O	O	13
14			0	0	69.1	81.4	87.8	120.0	167.0				14
15			0	13.5	72.9	78.2	80.9*	123.0*	172.0				15
16	F	F	0	27.8	72.3	75.5	87.3	112.0	182.0*	F	F	F	16
17	L	L	0	47.7	72.3	74.5	80.5	101.0	113.0	L	L	L	17
18	O		0	59.0	71.8	72.9	87.3	105.0	109.0	O	O	O	18
19	W	W	0	70.7	72.3	72.3	93.2	108.0	110.0	W	W	W	19
20			0	76.1	73.4	71.3*	98.0	117.0	113.0				20
21			0	68.1	76.6	70.2	105.0	123.0	120.0				21
22			0	59.0	69.1	70.2	123.0	148.0	123.0				22
23			0	36.7	79.8	73.4	127.0	142.0	125.0				23
24			0	32.5	78.7	73.4	119.0	147.0	121.0*				24
25			0	18.1	55.2	79.3	120.0	135.0	35.0*				25
26			0	22.0	50.9	77.7	120.0	148.0	0				26
27			0	28.2	69.7	75.5	120.0	153.0	0				27
28			1.0	17.0	80.9	73.9	128.0*	148.0	0				28
29			13.6	21.0		73.4	148.0	153.0	0				29
30			40.5*	27.8		70.7	154.0	153.0	0				30
31			57.4	21.3		70.2		153.0					31
MEAN			3.6	26.4	57.6	76.0	92.2	134.3	119.2				MEAN
MAX			57.4	76.1	80.9	83.0	154.0	159.0	182.0				MAX
MIN.			0	0	16.7	60.0	29.4	101.0	0				MIN.
AC. FT.			223	1625	3198	4675	5486	8257	7093				AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE 42.2	MAXIMUM DISCHARGE GAGE HT. MO. DAY TIME	MINIMUM DISCHARGE GAGE HT. MO. DAY TIME	TOTAL ACRE FEET 30557
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LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M.D.B & M	OF RECORD			DISCHARGE	GAGE HEIGHT OHLT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C05151	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	255	231	256	367	1276	2481	5992	6420	6322	4625	2854	3093	1
2	227	231	245	350	1262	2440	6315	6387	6219	3432	3419	2979	2
3	215	231	240	342	1248	2420	6217	5623	6368	4211	4048	2887	3
4	232	237	239	346	1235	2369	6146	6352	6894	4289	4120	2872	4
5	238	264	258	363	1222	2334	5861	6270	7521	4273	4154	2754	5
6	200	266	263	378	1191	2566	5100	6252	7480	4302	4131	2623	6
7	193	274	203	375	1217	2751	5605	5464	7371	4292	2859	2523	7
8	191	256	153	387	1207	2762	6348	6110	7246	4309	2900	2369	8
9	155	259	78	386	1203	2709	7093	6019	7214	4311	4021	2212	9
10	131	253	55	375	1596	2644	7186	5911	7251	4320	4073	2116	10
11	181	259	44	359	1939	2618	6850	5884	6868	4329	4116	2008	11
12	183	251	41	446	2004	2812	6772	5817	6642	4343	4124	1946	12
13	193	251	39	548	2046	3300	6683	5368	6624	3938	4081	1942	13
14	217	261	40	518	2134	3472	6498	4820	6632	4469	3842	1926	14
15	231	299	37	548	2265	3641	6421	4387	6612	4589	3803	1913	15
16	263	341	39	483	2247	3700	6406	4374	6611	4600	3639	1906	16
17	283	352	225	472	2285	4053	6372	4370	6605	4615	3633	1904	17
18	317	358	290	485	2428	4209	6358	4365	6219	4630	3661	1899	18
19	265	310	294	540	2438	4266	6345	4395	6090	4738	3650	1851	19
20	263	302	280	626	2364	4263	6322	4804	5800	4669	3655	1795	20
21	261	300	240	741	2378	4375	6319	4790	5689	4678	3639	1750	21
22	246	301	243	619	2367	4558	6302	4903	5667	3924	3652	1708	22
23	241	299	305	1203	2458	4829	6319	5246	5644	4508	3624	1691	23
24	230	297	369	2629	2890	5131	6399	5222	5631	4526	3548	1678	24
25	224	276	392	2602	2044	5178	6446	5239	5610	4508	3479	1614	25
26	229	260	406	2085	1772	5427	6481	5247	5585	4086	3312	1610	26
27	225	260	360	1519	2296	5711	6475	5210	5341	4095	3224	1610	27
28	222	259	353	1420	2552	5681	6485	5176	5137	4172	3147	1612	28
29	231	257	373	1344	2552	5619	6442	5292	5137	4091	3140	1504	29
30	235	256	372	1312	2538	5638	6429	5467	4925	4082	3134	890	30
31	224	244	369	1292	2592	5664	6421	5467	4925	3625	3111	890	31
MEAN	226	275	229	821	1913	3859	6366	5400	6299	4292	3606	2040	MEAN
MAX.	317	358	406	2629	2890	5711	7186	6420	7521	4738	4154	3093	MAX.
MIN.	131	231	37	342	1191	2334	5100	4365	4925	3432	2854	890	MIN.
AC. FT.	13866	16365	14085	50499	106247	237265	378817	332015	374787	263903	221738	121359	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 - E AND -

MEAN DISCHARGE	MAXIMUM DISCHARGE				MINIMUM DISCHARGE				TOTAL		
2943	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2943	7576	14.2	11-19-50	6	5	31	12	15	15	15	21310.0

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B S M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FRD	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,407 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	CO7120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16					INSUFFICIENT DATA TO PUBLISH DAILY FLOWS								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

E - ESTIMATED
NR - NO RECORD
v - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
* - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	
	2.25	2	24	2130	0.0	10	1	0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT	DATE			FROM	TO		
35 12 21	119 24 35	NW2B 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

TABLE B-5

TULARE LAKE INFLOW

This table presents data on total inflow to Tulare Lake and the contribution of flow by the Kings, Kaweah, Tule, and Kern Rivers. The sum of the flows from the above listed streams does not equal the full amount of inflow to Tulare Lake because other unmeasured streams contributed to the total flow.

Record furnished by Tulare Lake Basin Water Storage District and Boswell Company.

For lake stage and area inundated see Table B-12 on page 126.

TABLE B-5

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		TOTAL INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	4261	6265	3650 E	2720	2775 E	90			1
2				0	3372	5783	3700 E	2670	4165	50			2
3				0	3204	5327	2832 E	2675 E	3845	0			3
4				0	2994	5350	3148 E	2675 E	5490	0			4
5				0	2775	5119	3570 E	1875	5552	0			5
6				0	2648	4843	3965 E	2700	6550	0			6
7				0	2821	3864	4300	3220	6625 E	0			7
8				0	2683	3664	4800	3020	6640	0			8
9				0	3087	3637	5000 E	3015	6855	0			9
10				0	3093	3558	5500	2905 E	6961	0			10
11				0	2679	3713	5900	2805 E	6785	0			11
12	N	N	N	0	2269	3679	5750 E	2710	6675	0	N	N	12
13	O	O	O	0	2276	3697	5750 E	2525	5440	0	O	O	13
14				0	1972	3572	5700	2535	4950 E	0			14
15				0	1814	3558	5700	2190	4540 E	0			15
16	F	F	F	0	1791	3535	5700	2265	4195	0	F	F	16
17	L	L	L	0	1915	3502	5100	2085 E	4075	0	L	L	17
18	O	O	O	0	1781	3505	4970	2015 E	3720	0	O	O	18
19	W	W	W	0	1785	3578	4700 E	1965	3550	0	W	W	19
20				0	1969	3540	4500 E	1775	3550	0			20
21				2620	1906	3522	4270	1499	2195	0			21
22				2270	2145	3562	3995	980	1990 E	0			22
23				1870	2361	3564	3800	820	1840 E	0			23
24				1390	2815	3620	3230	700 E	1493	0			24
25				2070	4014	3572	2890	750 E	1405	0			25
26				2079	6376	3436	2910 E	860	1185	0			26
27				4370	10414	3471	2925 E	865	760	0			27
28				4655	8817	3510	2960	1060	540 E	0			28
29				4609		3375	2885	1090	280 E	0			29
30				4688		3234	2830	1250 E	125	0			30
31				4639		3297		1375 E	180	0			31
MEAN				1137	3223	3918	4231 E	1987 E	3825	4.5			MEAN
MAX.				4688	10414	6265	5900	3220	6961	90			MAX.
MIN.				0	1781	3234	2830	700	125	0			MIN.
AC FT.				69937	178982	240896	251762E	122170E	227605	278			AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
		GAGE	HT	MO.	DAY	TIME	GAGE	HT	MO.	DAY	TIME	ACRE FEET
1508												1092000

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		KINGS RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	0	700 E			1257 E	20			1
2				0	0	300 E			2500	0			2
3				0	0	100 E			2600	0			3
4				0	0	50 E			3200	0			4
5				0	0	0			3302	0			5
6				0	0	0			4000	0			6
7				0	0	0			4000 E	0			7
8				0	0	0			3995	0			8
9				0	0	0			4150	0			9
10				0	0	0			4076	0			10
11				0	0	0			4030	0			11
12	N	N	N	0	0	0	N	N	4230	0	N	N	12
13	O	O	O	0	0	0	O	O	4040	0	O	O	13
14				0	0	0			3900	0			14
15				0	0	0			3800 E	0			15
16	F	F	F	0	0	0	F	F	3740	0	F	F	16
17	L	L	L	0	0	0	L	L	3520	0	L	L	17
18	O	O	O	0	0	0	O	O	3470	0	O	O	18
19	W	W	W	0	0	0	W	W	3300	0	W	W	19
20				0	0	0			3300	0			20
21				500	0	0			2105	0			21
22				250	0	0			1900 E	0			22
23				200	50	0			1750 E	0			23
24				50	75	0			1403	0			24
25				600	250	0			1315	0			25
26				700	800	0			1095	0			26
27				1100	2500	0			670	0			27
28				450	1300	0			450	0			28
29				250	0	0			200 E	0			29
30				250	0	0			55	0			30
31				125	0	0			0	0			31
MEAN				144	178	37 E			2632	0.6			MEAN
MAX				1100	2500	700 E			4230	20			MAX
MIN.				0	0	0			55	0			MIN.
AC. FT.				8876	9868	2281E			160160	4.0			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	DAGE HT	MO	DAY	TIME	DISCHARGE	DAGE HT	MO	DAY	TIME	ACRE FEET
250											381200

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		KANEAH RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	2000 E	1300 E	150 E	630	1300 E				1
2				0	1300 E	1100 E	150	620	1440				2
3				0	1300 E	1000 E	150	700 E	1645				3
4				0	1400 E	1050 E	265 E	800 E	1860				4
5				0	1500 E	1100 E	380 E	860	2020				5
6				0	1700 E	1200 E	495 E	810	2180				6
7				0	1800 E	1230 E	610	780	2200				7
8				0	1500 E	1230 E	1060	710	2220				8
9				0	1400 E	1200 E	1200 E	700	2275				9
10				0	1400 E	1150 E	1650	750 E	2385				10
11				0	1400 E	1400 E	1660	750 E	2275				11
12	N	N	N	0	1300 E	1400 E	1500 E	760	1995	N	N	N	12
13	O	O	O	0	1300 E	1470 E	1450 E	760	1010	O	O	O	13
14				0	1100 E	1430 E	1400	690	700				14
15				0	980 E	1370 E	1400	510	450 E				15
16	F	F	F	0	1150 E	1300 E	1400	510	200	F	F	F	16
17	L	L	L	0	1040 E	1300 E	1400	510 E	300	L	L	L	17
18	O	O	O	0	970	1180 E	1376	515 E	20	O	O	O	18
19	W	W	W	0	1170 E	1000 E	1350 E	515	20	W	W	W	19
20				0	1150 E	880 E	1300 E	505	20				20
21				1160	1030 E	800 E	1240	494	0				21
22				1110	1100 E	740 E	1100	330	0				22
23				910	1110	700 E	1025	370	0				23
24				760	1210	640 E	918	400 E	0				24
25				710	1820	500 E	930	500 E	0				25
26				660	1920	400 E	950	665	0				26
27				2020	3630	400 E	975 E	595	0				27
28				2500	3230	440 E	1000	770	0				28
29				2500		350 E	770	840	0				29
30				2500		200 E	719	1000 E	0				30
31				2500		150 E		1150 E	0				31
MEAN				559	1497 E	956 E	999 E	661 E	884				MEAN
MAX				2500	3630	1470 E	1660	1150 E	2385				MAX
MIN.				0	970 E	150 E	150	330	0				MIN.
AC. FT.				34734	83127E	58770E	59451E	40659E	52592				AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	DAGE HT	MO	DAY	TIME	DISCHARGE	DAGE HT	MO	DAY	TIME	ACRE FEET
454											329000

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		TULE RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	1861	2935	850 E	540	150 E				1
2				0	1687	2863	900	500	175				2
3				0	1494	2617	202	400 E	150				3
4				0	1124	2550	358 E	300 E	140				4
5				0	895	2329	515 E	230	180				5
6				0	668	2023	670 E	210	295				6
7				0	721	1424	825	160	225 E				7
8				0	973	1254	875	160	175				8
9				0	1187	1217	900 E	90	180				9
10				0	1193	1218	1150	80 E	250				10
11				0	899	1173	1200	70 E	230				11
12	N	N	N	0	679	1149	1250 E	80	200	N	N	N	12
13	O	O	O	0	686	1147	1300 E	65	140	O	O	O	13
14				0	612	1052	1325	120	100 E				14
15				0	584	948	1325	30	50 E				15
16	F	F	F	0	451	865	1325	35	25	F	F	F	16
17	L	L	L	0	615	772	1270	25 E	25	L	L	L	17
18	O	O	O	0	571	775	1274	0 E	0	O	O	O	18
19	W	W	W	0	435	848	1050 E	0	0	W	W	W	19
20				0	579	790	900 E	0	0				20
21				500	616	752	820	0	0				21
22				450	735	762	735	0	0				22
23				350	851	754	635	0	0				23
24				150	1130	780	662	0 E	0				24
25				250	1114	782	610	50 E	0				25
26				239	2586	776	610 E	70	0				26
27				697	3204	771	600 E	170	0				27
28				1275	3217	770	600	190	0				28
29				1449	700	700	530	150	0				29
30				1578	734	734	561	150 E	0				30
31				1629	727	727	150 E	150 E	0				31
MEAN				276	1120	1234	859 E	130 E	90				MEAN
MAX				1629	3217	2935	1325	540	295				MAX
MIN				0	435	700	202	0	0				MIN
AC FT				16992	62216	6882	51108	79848	5336				AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRES FEET
303			219500

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		KERN RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	600 E	2200 E	1500	25 E	20				1
2				0	900 E	2200 E	1500	0	0				2
3				0	960 E	2200 E	1500 E	0	0				3
4				0	1060 E	2200 E	1500 E	0	0				4
5				0	1110 E	2300 E	700	0	0				5
6				0	1120 E	2400 E	1600	25	0				6
7				0	850 E	2400	2200	150	0				7
8				0	870 E	2400	2100	200	0				8
9				0	920 E	2500	2175	200	0				9
10				0	890 E	2300	2000 E	200	0				10
11				0	850 E	2600	1900 E	200	0				11
12	N	N	N	0	840 E	2600 E	1780	200	0	N	N	N	12
13	O	O	O	0	790 E	2600 E	1600 E	200	0	O	O	O	13
14				0	830 E	2600	1650	200 E	0				14
15				0	1000 E	2600	1600	190 E	0				15
16	F	F	F	0	1150 E	2600	1670	180	0	F	F	F	16
17	L	L	L	0	1240 E	2200	1500 E	180	0	L	L	L	17
18	O	O	O	0	1360 E	2200	1450 E	180	0	O	O	O	18
19	W	W	W	0	1500 E	2100	1400	180	0	W	W	W	19
20				0	1670 E	2100 E	1220	180	0				20
21				0	1780 E	2000	955	40	0				21
22				0	1870 E	2000	600	40 E	0				22
23				0	1920 E	2000	400	40 E	0				23
24				0	2010 E	1600	250	40 E	0				24
25				0	2090 E	1300	150 E	40	0				25
26				0	2070 E	1300 E	75	40	0				26
27				0	2110 E	1300 E	50	40	0				27
28				200	2170 E	1300	50	40 E	0				28
29				0	2150 E	1300	50	30 E	0				29
30				0	2100 E	1500	50 E	20	0				30
31				0	2120 E	1500	25 E	0	0				31
MEAN				7.1	1384 E	2103 E	1135 E	102	0.6				MEAN
MAX				200	2170 E	2600	2200	200	20				MAX
MIN				0	600 E	1300	25 E	0	0				MIN
AC FT				397	850918	1251578	69898	60698	40				AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRES FEET
396			286600

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Ash Slough at Eastside Bypass (a)(b)	San Joaquin River via Eastside Bypass	SE $\frac{1}{4}$, Sec 22, T10S, R14E	1-20-69	1.33	785
			1-22-69	1.49	1086
			1-26-69	1.59	1210
			2-26-69	2.68	2264
Bear Creek at Eastside Bypass (c)	San Joaquin River via Eastside Bypass	NW $\frac{1}{4}$, Sec 12, T 8S, R11E	1-26-69	89.92	1998
Berenda Slough (Rd. 9) at Eastside Bypass (c)	San Joaquin River via Eastside Bypass	SW $\frac{1}{4}$, Sec 6, T11S, R15E	1-20-69	151.60	1592
			1-22-69	152.16	2180
			1-26-69	151.67	1660
			2-26-69	152.02	1965
California Aqueduct at McCabe Road Bridge			10-29-68		2449
			10-29-68		2469
Chowchilla Bypass (Ave. 14) above Fresno River (c)	San Joaquin River	NE $\frac{1}{4}$, Sec 29, T11S, R15E	2-25-69	8.6	7301
Chowchilla Bypass below San Joaquin River (Floatwell #4) (a)(b)	San Joaquin River	NE $\frac{1}{4}$, Sec 25, T13S, R15E	1-24-69	165.27	614
			1-24-69	166.02	992
			1-26-69	169.09	3624
			1-27-69	170.22	4323
			1-29-69	169.40	3573
			1-30-69	171.40	6138
			2- 3-69	171.07	5519
			2-20-69	170.70	5403
			2-24-69	170.68	5727
			2-25-69	171.56	7182
			3- 4-69	171.32	6481
			3-11-69	171.36	6969
			3-19-69	171.31	6828
			3-27-69	171.36	7046
			4- 1-69	170.38	5474
			4- 9-69	170.22	5115
			4-16-69	169.16	3802
			4-24-69	167.71	2388
			4-29-69	167.31	2231
			5- 2-69	170.35	5922
			5- 9-69	170.13	5570
			5-15-69	170.54	5795
			5-22-69	170.64	5815
5-27-69	170.48	5324			
5-29-69	170.73	6228			
6- 5-69	171.44	7485			
6- 6-69	171.85	8505			
6- 9-69	172.19	9216			
6-17-69	170.78	5983			
6-23-69	169.73	4143			
6-27-69	166.14	956			
7- 3-69	165.42	750			
Deer Creek	Tulare Lake	Trenton Weir (Rd. 176) Friant-Kern Canal (Rd 208)	1-23-69		132
			1-23-69		143
			Road 192	1-28-69	439
			Road 192	1-29-69	301
			Road 192	1-30-69	172
			Road 192	1-31-69	135
			Road 192	2- 3-69	104
			Road 192	2- 7-69	381
			Trenton Weir	2-14-69	147
			Road 192	2-19-69	375
			Road 192	2-25-69	4482
			Road 192	2-26-69	3334
			Road 192	3- 1-69	663
			Road 192	3- 6-69	263
			Road 192	3-11-69	211
			Trenton Weir	3-17-69	180
			Road 192	3-19-69	215
			Road 192	3-21-69	264
			Road 192	3-27-69	231
			Road 192	4-10-69	232
			Road 192	4-16-69	189
			Trenton Weir	4-23-69	160

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Deer Creek (Cont.)	Tulare Lake	Trenton Weir	4-29-69		114
		Trenton Weir	5- 7-69		77
		Trenton Weir	5-14-69		76
		Trenton Weir	5-28-69		76
		Friant-Kern Canal	6- 4-69		112
		Friant-Kern Canal	6-11-69		117
		Trenton Weir	6-11-69		98
		Friant-Kern Canal	6-18-69		134
		Trenton Weir	6-18-69		127
		Trenton Weir	7- 2-69		151
		Trenton Weir	7-16-69		126
		Trenton Weir	7-21-69		109
		Trenton Weir	7-23-69		139
		Trenton Weir	7-30-69		136
		Trenton Weir	8-14-69		119
Trenton Weir	8-27-69		127		
Eastside Bypass at Washington Road (c)	San Joaquin River	NW $\frac{1}{4}$, Sec 33, T9S, R13E	1-31-69		6623
Eastside Bypass (Road 9) below Fresno River (c)	San Joaquin River	NW $\frac{1}{4}$, Sec 18, T11S, R15E	1-20-69	148.60	1540
			1-22-69	148.80	2204
			1-27-69	150.62	6294
			2-25-69	152.20	9204
Owens Creek at Eastside Bypass (c)	San Joaquin River via Eastside Bypass	SW $\frac{1}{4}$, Sec 19, T8S, R12E	1-22-69		1620
			2-26-69	94.66	1158
San Joaquin River below Chowchilla Bypass (Floatwell #3) (a)(b)	San Joaquin River	NE $\frac{1}{4}$, Sec 25, T13S, R15E	1-29-69	168.03	1216
			1-30-69	168.36	1452
			2- 3-69	169.25	2116
			2-20-69	168.69	1594
			3- 3-69	167.67	1011
			3-11-69	167.78	1023
			3-19-69	167.75	1022
			3-27-69	167.74	976
			4- 1-69	166.88	576
			4- 9-69	166.81	562
			4-16-69	166.77	532
			4-24-69	166.73	549
			4-29-69	167.54	1007
			5- 9-69	168.59	1774
			5-15-69	168.54	1695
			5-22-69	168.56	1670
			5-27-69	168.61	1785
			5-29-69	168.59	1655
			6- 5-69	169.66	2555
			6- 6-69	169.78	2666
6- 9-69	169.82	2681			
6-17-69	169.88	2725			
6-23-69	167.74	1112			
6-27-69	167.79	1108			
7- 3-69	167.74	1108			
7-11-69	167.67	1092			
7-23-69	165.79	208			
San Joaquin River below Sand Slough (c)	San Joaquin River	NE $\frac{1}{4}$, Sec 31, T9S, R13E	2-26-69	101.74	276

(a) Recording gage.

(b) Daily mean discharges are available.

(c) Staff gage only.

TABLE B-7

DIVERSIONS

Monthly and annual acre-feet of water diverted are shown in this Table for the San Joaquin, Stanislaus, Tuolumne, Merced, and Tule Rivers, and Dry Creek, a tributary to the Tuolumne River, for the 1969 water year. Diversion points which divert less than 200 acre-feet annually based on a three-year average are discontinued from the program. This allows for collection and publication of approximately 95 percent of the water diverted for use by measuring and collection of record on about 50 percent of the total diversion points.

Monthly diversion values have been rounded off as follows:

1. Individual diversions - acre-feet

0.0	- 999	nearest	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Total monthly diversion - cubic feet per second

All values to nearest unit.

3. Monthly use in percent

All values to nearest tenth.

Data received from outside agencies are published as received and are not necessarily rounded to the criteria used by the Department of Water Resources.

WATER USER	MILE AND BANK ABOVE NO. 1	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT. ACRE-FEET																		
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.		SEPT.																	
MAZE ROAD BRIDGE--	94.7	1-14																														
STANISLAUS RIVER AT MAZE ROAD BRIDGE--	94.7	1-14																														
Mase Brothers	88.4 R	1-14										296	112	328	166		902															
Maze Road Bridge	94.8 R	1-20														37	37															
--STANISLAUS RIVER--	94.8 R	1-20																														
Faith Ranch	89.8 R	1-16	66	17										5	178	140	456															
W. C. Blewett Estate	93.7 L	1-12																														
W. C. Blewett Estate	91.8 L	2-12 1-14										89	738	735	415	698	523	3698														
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	91.85																															
Blewett Mutual Water Company	81.95 L	1-10 2-12 1-14	28									79	1390	618	979	1010	322	4926														
El Solyo Water District	82.7 L	1-16 1-16 3-16	14									16	1230	2440	1360	2850	2240	987	11300													
--HETCH HETCHY AQUEDUCT CROSSING--	82.65																															
El Solyo Ranch	82.9 L	1-16																														
El Solyo Ranch	83.5 L	1-12	11															11														
El Solyo Ranch	83.7 L	1-12	11															10														
Faith Ranch	84.4 R	1-16 1-20	465	4											268	1060	709	2506														
--GAGING STATION - SAN JOAQUIN RIVER AT CALDWELL--	90.95																															
--TUOLUMNE RIVER--	91.0 R																															
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L																															
West Stanislaus Irrigation District	91.8 L	1-12 1-24 6-26	1955	265	54							79	6680	12660	13590	16020	11760	5210	68370													
Fred Lara #1	* (0.65)	1-14				1									108	169		175	454													
E. E. Hagemann Ranch #1	* (0.7N)	3-16													477	259	341	404	493	170	2104											
E. E. Hagemann Ranch #2	* (1.1N)	1-14 1-16	42												281	275	480	382	434	210	2107											
Fred Lara #2	* (2.2S)	1-16																7	3	22	2	34										
E. E. Hagemann Ranch #3	* (2.3N)	2-16													189	334	157	292	199		1171											
John and Robert Bogetti	92.1 R	1-17																		12	183	195										
John and Robert Bogetti	93.1 R	1-12 1-14																			478	56	534									
George Covert	94.1 L	1-3 1-6																														
Rancho Los Rios	94.7 R	1-12	63	2	1	5									12					29	116	322	150	750								
F. L. Brazil	95.5 R	1-16	76																				63	169	308							
Island Dairy	96.0 L	1-18																						10	10	78	560	309	973			
--LAIRD SLUGH BRIDGE--	96.0 R																															
Rancho El Pescadero	98.9 L	1-18																														
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4 L																															
Patterson Water District	104.4 L	1-14 2-18 1-2 2-36																														
Mase Brothers	104.4 R	1-18	83																													
--PATTERSON BRIDGE--	104.4 R																															
Mase Brothers	106.4 R	1-12																														
John Kinell	106.4 R	1-12	76																													
Wine and Irrigation Company	106.4 R	1-12 1-16 1-18 1-2																														
W. C. Henderson	106.4 R	1-16	63																													
F. L. Brazil	111.8 R	1-16	18																													
F. L. Brazil	111.8 R	1-12	20	4																												

TABLE 2 (Continued)
 DIVERSIONS - SAN JOAQUIN RIVER
 Vernalis to Fremont Ford Bridge
 October 1968 to June 1969; September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE- FEET		
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.			
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	118.4																
D. R. Lemos	114.03P	1-8															
Arnold and Ben Souza	114.70P	2-10	86	3								44	20	112	283	881	1400
--ORESTIMBA CREEK--	115.2 L																
Roy F. Crow	115.18 L	1-10	12									191	4	247	123	154	112
L. B. Crow	116.051	1-14	25									64	107	119	168	178	116
John W. Greer	116.15P	1-8	35												64	44	144
John W. Greer	116.5 P	1-12												105	164	211	426
Manuel A. Serpa	121.3 P	1-10 1-18	42									46	14	64	244	501	1104
--MERCED RIVER SLOUGH--	122.2 P																
Stevinson Corporation	122.6 L	1-16															
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7																
--MERCED RIVER--	123.75P																
Stevinson Corporation	129.1 P	1-16	41											56	87	11	151
--GAGING STATION-- SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5																
<u>VERNALIS TO FREMONT FORD BRIDGE</u>																	
Total			206	298	35	46	0	138	11980	27440	26550	3441	1110	14460	14950		
Average cubic feet per second			52	5	1	1	0	5	201	446	446	566	499	243	287		
Monthly use in percent of seasonal			2.1	0.2	0	0	0	0.2	8.0	18.4	17.8	23.0	31.6	9.7			

* West Stanislaus Irrigation District Canal Intake Canal joins the San Joaquin River at mile 91.8L. Distance from the river and bank location of diversion are shown in parentheses.

a Includes an undetermined amount of water returned to river by spill.

WATER USER	MILE AND BANK POINT NUMBER	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET		
			OCT.	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT			
--GAGING STATION - SAN JUAN IN RIVER AT FISHMONT FORD BRIDGE--	198.0																
--GAGING STATION - SAN JUAN IN RIVER NEAR STEVENSON--	198.3																
--GAGING STATION - SAN JUAN IN RIVER NEAR DCS PALO--	198.4																
San Luis Canal Company	186.6L	Gravit	617	3426	1652			123	174	17644	26447	3740	2702	1960			68760
--FIREBAUGH BRIDGE--	198.4																
--GAGING STATION - SAN JUAN IN RIVER NEAR MENDOTA--	208.63																
--MENDOTA DAM--	208.63																
Central California Irrigation District	308.0 L	Gravit	21947	4963	117			1240	4971	8077	88536	34915	76723	47524			448761
--FRESNO SLOUGH--	219.0 L																
--DELTA-MENDOTA CANAL--	219.2L																
Firebaugh Canal Company	219.4L	b	1833	85	135			39	1054	1795	14747	14527	11857	560	4358		67216
W. L. Dudley	219.4L	b	135							26	311	12	401	218	21		1238
State of California Mendota Waterfowl Management	6.43-8.27	b	1127	1999	865					26	154	243	2142	3872	260		24008
Fresno Slough Water District	18.20-17.50	b								191	321	441	541	627	821		2391
--JAMES BYPASS--	211.800L																
Traction Ranch	211.75	d	28							20	66	74	107	100	1248	47	1966
Reclamation District 106	211.70	d								No Diversion							
James Irrigation District	211.4	d												87	6992	2464	11291
Tranquillity Irrigation District	12.00-13.75	b								649	311	2243	4713	5322	4673	952	21646
Melvin D. Hughes	112.27	b									2		27	16	24		82
--LONE WILLOW SLOUGH--	219.8 P																
Columbia Canal Company	219.8 P		3073	977	68			13	1926	6374	7969	9376	9489	9096	6777		3936
State Center Land Company	1-6	f	252	155	48												52
W. Beck	1-8	g	6														26
Willie San Club	1-8	h								No Diversion							
Westlands Water District			114	377	266			202	206	2336	12366	12626	3302	2783	637		3167
Grasslands			21132	5444													2699
J. W. Wilson											85	4	103	59	84		319
Laguna Water District													101	127	27		400
Panolocho Water District													880	1260	1700	1776	294
--GAGING STATION - SAN JUAN RIVER AT WHITEHOUSE--	219.8																
--GRAVELLY FORD CANAL--	232.8 P																
FREMONT BRIDGE TO GRAVELLY FORD																	
Total			87777	16811	4071	96	14	101	41	4746	10777	12006	14006	4000	4000		100000
Average cubic feet per second			1113	202	50	1	2	3	1	130	1339	1466	1744	500	500		121
Monthly use in percent of season			11	21	5	0	0	0	1	5	13	16	17	6	6		14

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entropy and the Department of Water Resources. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

- a Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
- b Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 219.2. Distance from the San Joaquin River and bank of slough in which diversion is located are shown in parentheses.
- c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
- d Plant is located on James Bypass which diverts from Fresno Slough at mile 211.8. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
- e Includes deliveries to Gutz property under transfer to Westlands Water District.
- f One 6-inch pump located on arm of slough at SW corner of L2 T. 4 S. R. 18 E.
- g One 6-inch pump located on arm of slough 140 feet S. of NE corner S. 24 T. 4 S. R. 18 E.
- h One 8-inch pump located on arm of slough adjacent to W. Beck. Does not include water pumped into San Luis Canal via Adams Pipeline lateral 71 from Mendota Pool, April 1968 acre-feet.
- i Does not include transferred water delivered to Gutz property; by Tranquillity Irrigation District and deliveries under separate agreements by Panolocho Water District and San Luis Water District.

TABLE 8-7 (Cont.)
 DIVERSIONS FROM JOAQUIN RIVER
 TO THE FRIANT DAM
 THROUGH THE FRIANT DIVERSION SYSTEM

WATER USER	MILE AND BANK OF PUMP	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE- FEET	
			OCT	NOV	DEC.	JAN	FEB	MAR.	APR	MAY	JUNE	JULY	AUG		SEPT
De... ..	111.3R	2- 8	1						19	10	224	144	81	27	1641
... ..	111.3AL	1- 8	44						16	8	41	134	11	27	2
--SANTA FE RAILROAD--	111.2e														
-- S. HIGHWAY 44 BRIDGE--	14.1B														
--SANTA FE RAILROAD BRIDGE--	14.1J														
Miller Brothers	11.46L	1- 8							4	4	2	78	45	33	4
Edenmore Island Stock Ranch 2	216.34F	1- 8									43	7	38	29	189
Oscar Spano River Ranch 4	16.38L	1- 8								32	51				101
Edenmore Island Stock Ranch 2	256.2P	1-									36	43	36	4	194
Oscar Spano River Ranch 1	27.10L	1-1									126	142	212	392	1228
Oscar Spano River Ranch 2	27.70L	1-1							69	71	69	81	131	164	637
James Sims	11.8B	1- 6 1- 8										44	113	95	276
--STATE HIGHWAY 41 BRIDGE--	27.8C														
W. E. Roberts	278.90L	1-12	120					2	9	165	146	18	218	178	1196
J. E. Cobb	279.39F	2- 6	1						5		46		82	1	243
--OLD LANES BRIDGE--	279.7B														
J. E. Cobb 3	269.40R	1- 6	44						53	80	103	109	94	91	74
W. C. Arnold	261.53R	1- 4 1- 5	37	26					32	58	81	113	101	67	575
Duane M. Folsom	261.73L	1- 6									13	33	45	24	129
E. G. Rank, Jr.	262.32L	1- 8		5					12	32	50	75	93	26	293
E. G. Rank, Jr. #2 b	262.34L	1- 6	4						12	32	41	62	70		221
H. K. Jensen	263.76F	1- 5	22						4	30	37	55	54	60	262
W. F. Ball 2	264.04L	1- 6	22	8				16	15	30	20				111
Ike D. Ball	264.60R	1- 6	43							55	114	132	107	86	537
W. F. Ball	264.83L	1- 4 1- 5	40				1	1	27	80	62	80	79	74	444
Virgil Durand	267.56L	1- 6	4	3						4	44	113	182	173	600
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
GRAVELLY FORD TO FRIANT DAM															
Total			649	253	36		1	26	488	1183	1508	2136	2257	1578	10115
Average cubic feet per second			11	4	1	0	0	0	8	19	25	35	37	27	14
Monthly use in percent of seasonal			6.4	2.5	0.4	0	0	0.3	4.8	11.7	14.9	21.1	22.3	15.6	

a Station deactivated at end of May -
 b New installation in 1968.

TABLE B - ~~Cont.~~
 DIVERSIONS - STANISLAUS RIVER
 October 1968 through September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET		
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT			
Moresco Brothers	1.9 R	1-16							NO DIVERSION								
C. C. Angyal a	2.4 R	1-18	131	26							104		37	199	492		1,126
Faist Ranch	4.4 L	2-12 -16	36.9								16	33	6	26.4	33		1,334
Reclamation District 2064	4.8 R	1-14 1-16 2-20	222						61	130	1290	176	243	2,500	137		10,160
Reclamation District 2075	4.9 R	2-16 1-2	623	45		17			2377	3417	2800	2590	290	2290			17,040
D. F. Koetitz	4.7 L	1-20								13	53	82	125	66	104		543
E. T. Mape	4.75L	1-27									438	536	462	266	6		1684
Henry Pelucca	5.5 L	1-16	1		1						22	87	17	84	178	53	373
Bernard Wend c	6.4 L	1-14	6								133	96	99	225	211	62	b 832
D. J. Macedo	8.4 R	1-16	187								190	167	99	416	363	328	1750
N. E. Cannon	8.7 R	1-10	22								109	340	248	236	244	144	1343
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.35L																
D. F. Koetitz	9.4 L	1-12									215	249	243	283	135		1,272
John L. Hertle	9.8 L	1-10										19	12	21	42	22	116
Joe Lourence	10.0 R	1-16	125											88	219	163	610
Joe Lourence	10.5 R	1-16												5	80	74	159
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7 L																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7																
--U. S. HIGHWAY 99 BRIDGE--	15.7																
A. Girardi	17.7 L	1-16										91	227	289	169	81	857
Estate of Robert Paul Barton and Alice Lee Barton	19.0 R	1-14	1								108	93	75	161	126	48	612
Libby, McNeill and Libby	20.9 R	1-14										53	398	242	372	293	1576
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6																
--SANTA FE RAILROAD BRIDGE--	33.4																
Oakdale Irrigation District (Crawford Pump)	d 37.7 L	1-14							19	36	44	190	174	147			e 612
Oakdale Irrigation District (Brady Pump)	d 39.1 L	1-12	5						5	278	217	151	222	131	4		1,015
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2																
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2																
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0																
--KNIGHTS FERRY BRIDGE--	54.5																
STANISLAUS RIVER																	
Total			1687	71	1	17	1	84	457.5	7.00	8806	8825	8457	5556			43276
Average cubic feet per second			27	1	0	0	0	1	77	117	114	144	138	91			67
Monthly use in percent of seasonal			3.7	1.2	0	0	0	0.2	10.6	16.6	15.7	23.4	9.6	12.8			

a Previously listed as C. C. Angyal.

b Includes an undetermined amount of water returned to river by spill.

c Formerly listed as Alice Gill.

d Oakdale Irrigation District for season of 1969 maintained plants at Miles 37.7L and 39.1L to supplement district gravity supply.

TABLE B- (Cont.)
 DIVERSIONS - TUOLUMNE RIVER
 October 1968 thro. September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET										TOTAL DIVERSION OCT-SEPT ACRE- FEET		
			OCT.	NOV	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY		AUG	SEPT
E. T. Mape	1.3 R	2-14	352							24	31	499	42	31	2000
John and Robert Bogetti	1.9 L	3-12											17	61	41
John and Robert Bogetti	2.9 L	1-10 1-12										439	12	427	600
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILON BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0 R	1-10								18	4	19	39	24	104
Della Battestin	5.9 L	1-16							NO DIVERSION						
Western Farms	6.3 L	1-16										96	52	86	234
Eugene Boons, Galen Hartwich, and Ted Gonzales	7.1 R	1-10								36	37	27	58	36	190
Elmer Hyer	8.4 R	1-10							20	16	36	31	45	41	292
James A. McCleskey	9.4 L	1-16	91	1		2				463	493	250	471	55	1826
James A. McCleskey	9.7 R	1-16	198							173	74	110	192	122	860
Homer Couchman	10.2 R	1-14	19							6	128	79	137	184	624
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREENWAY BRIDGE--	15.55														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--DRY CREEK--	16.5 R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3 R	1-10	26							18	59	62	67	70	371
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
--GEER AVENUE BRIDGE--	26.0														
Michel Investment Company	28.8 R	1- 8	20							17	80	78	114	57	356
Firpo Ranch	30.2 L	1-10	3		1	4				82	88	53	35	40	327
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.55														
Iva M. Ketcham	39.4 R	1- 8	19							497	451	164	140	92	1843
Westley N. Sawyer	39.8 L	1- 8	9							19	96	91	90	77	449
--ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	40.8 L	1-14	21								88	69	114	82	404
Curtner Zanker	45.7 L	1-10	21								73	100	96	72	411
Dolling Brothers	46.3 R	1- 8	79	6						17	85	57	91	104	527
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
<u>TUOLUMNE RIVER</u>															
Total			871	7	1	6	2	3	19	2424	1995	2779	2522	2249	12678
Average cubic feet per second			14	0	0	0	0	0	3	39	34	53	41	38	1
Monthly use in percent of seasonal			6.9	0.1	0	0	0	0	1.4	19.2	18.8	18.8	20.0	17.0	

TABLE B-7 (Cont.)
 DIVERSIONS - DRY CREEK
 October 1968 through September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT. ACRE- FEET		
			OCT	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.			
--MILLS--EMPIRE INDIAN C M EANY RAILROAD BRIDGE--	0.7																
--STATE HIGHWAY 132 BRIDGE YOSEMITE BOULEVARD --	0.8																
--LA ROMA BRIDGE--	1.2																
--EL VISTA AVENUE BRIDGE--	1.9																
--GAGING STATION - DRY CREEK NEAR MODESTO--	4.4 L																
--CLAUS ROAD BRIDGE--	5.4																
--SANTA FE RAILROAD BRIDGE--	6.4																
--CHURCH STREET BRIDGE--	7.2																
--WELLSFORD ROAD BRIDGE--	9.7																
--ALBERS ROAD BRIDGE--	11.0																
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1																
Edward Johnson	12.6 R	1- 6									37	25	39	31			132
Edward Johnson	12.7 R	1- 6									118		178	176	2		474
Joe Fagundes	14.7 R	1-10	52	8							28	99	107	113	120	112	639
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4																
<u>DRY CREEK</u>																	
Total			52	8	0	0	0	0	0	28	254	132	330	327	114		1245
Average cubic feet per second			1	0	0	0	0	0	0	0	4	2	5	5	2		2
Monthly use in percent of seasonal			4.2	0.6	0	0	0	0	0	2.2	20.4	10.6	26.5	26.3	9.2		

WATER USER	MILE AND BANK TO PUMP	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRES - FEET												TOTAL DIVERSION OCT-SEPT ACRES-FEET	
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT		
--WILLS FERRY BRIDGE--	1.1															
Stevenson Water District	1.7 R	1-2														
Stevenson Water District	1.3 L	1-2	224									20	4	94	178	
Stevenson Water District	1.8 R	1-18	111						44	168	161	14	46	194	420	
E. Thomas	4.3 L	1-16							24	24	9	14	36	9	111	
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6															
Maria DeAngelis	1.8 L	1-12								41						24
Stevenson Water District	6.1 L	1-20	48						16	228	208	402	496	208	1260	
Stevenson Water District	7.7 L	1-20							18	34	68	19	29	1	138	
Manuel Clementino	8.5 L	1-12							1	1	51		124	63	236	
Manuel Clementino	8.9 L	1-12							11	81	9	122		144	39	426
Samuel B. McCullagh	9.4 L	1-8							46	44	32	272	1	242	274	837
Mrs. J. R. Jacinto	9.6 L	1-12								64	21	61	88	48	268	
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alvea and A. Mattos	10.35L	1-10	17	14	194				18	94	180	176	212	127	79	
Manuel Freitas	10.9 L	1-12								29	118	148	23	81	506	
R. E. Prusso and John Vierra	10.9 L	1-8 1-12							114	39	85	81	108	57	484	
E. and J. Gallo Winery Ranch	11.6 L	1-18		56	275				40	94	43	528	222	232	21	
--MILLIKEN BRIDGE--	11.65															
Anthony L. Calderia	12.5 R	1-12														
E. and J. Gallo Winery Ranch	12.85L	1-12		12	174											
J. M. Souza	14.5 L	1-10														
E. and J. Gallo Winery Ranch	16.5 L	1-14								15	2	12				
J. E. Gallo	20.4 L	1-8		7	51				30	38	40		111	106	466	
--U. S. HIGHWAY 99 BRIDGE--	21.04															
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.06															
Gallo Cattle Company	22.2 R	1-8 1-16							65	499	75	73	229	210	88	
Gallo Cattle Company	22.8 R	1-10							45	61	92	12	73	66	437	
Merced River Farms Association	26.3 R	1-8							37	27	54	46	44	103	472	
--SANTA FE RAILROAD BRIDGE--	27.05															
M. C. Magnuson	27.5 R	1-12	66									122	1	114	303	
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55															
--CRESSEY BRIDGE--	27.55															
Manuel Silva	29.9 R	1-8 1-10								8	60	32	3	26	18	
Manuel Silva	30.95R	1-12							49	118	84	96	76		47	
Rancho Con Valor	31.1 L	1-8 1-12							7	19	62	51	61	78	264	
Manuel Silva	31.4 R	1-10								6	66	30	74	79	239	
P. Halarides	32.2 L	1-12	3									6	2		11	
--SHAFFER BRIDGE--	32.5															
Harry P. Schmidt and Sons	33.1 R	1-10								32	58	4	2	4	98	
W. F. Bettencourt, P. Halarides, and Cowell Lime and Cement Co.	36.9 R	Gravity	681	126	171	21	33	65	224	16	171	186	190	251	1117	
Amsterdam Orchards Incorporated	39.1 L	1-14								143					143	
Ratzlaff Brothers	40.2 L	1-2 1-4							1	1	26	49		59	218	
--COX FERRY BRIDGE--	42.1															
Fowel Ditch	45.3 R	Gravity	138	36	123	298	394	240	218	334	220	1620	31	100	10700	
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2															
Jorgenson Ditch	46.3 R	Gravity	111	211	241	245	360	300	275	124	1340	944	1441	1370	9170	
--SNELLING BRIDGE--	46.4															
Hook and Dale Ditch	47.0 R	Gravity	393	15	6	4	62	1	41	127	6	376	618	91	1428	
Ruddle Ditch	47.9 R	Gravity	2420	1870	1470	1520	947	162	132	1630	1830	2400	3120	2720	23440	
Canevaro Ditch	58.0 R	Gravity	274	82	61	78	109	13	122	698	126	841	689	608	4764	
MERCED RIVER																
Total			611	251	344	216	330	261	1088	1284	1192	1258	1800	1870	11800	
Average cubic feet per second			1.9	48	63	3.9	1.1	4.2	16.8	20.0	14.2	14.2	22.6	24.2	133	
Monthly use in percent of seasonal			8.4	17	28	2	1.1	3.7	4.2	10.8	14.1	10.8	10.8	10.8	100	

a. Formerly listed as Milton Meadows.
 b. Replaces a 12 and a 15" unit.

TABLE B-7 (cont.)
 DIVERSIONS - TULE RIVER
 October 1968 through September 1969

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE-FEET			
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.		
--SUCCESS DAM--	0.0																
--GAGING STATION - FINE COMB BELOW SUCCESS DAM--	0.35																
Embell Moreland Ditch	2.4 L	Gravity	903	143	61	698				129	545	78	1000	922	910		5339
--PORTER SLOUGH--	2.4 R																
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	a (2.4)																
--PIONEER SPILL--	a (3.7R)																
Porter Slough Ditch	a (4.5R)	Gravity						13		25	279	470	470	335	246		1838
--NEWCOMB AVENUE BRIDGE--	a (6.1)																
Vandalia Ditch	3.1 L	Gravity	74		113	222	164	234	206	25		189	281	270			1783
--SANTA FE RAILROAD BRIDGE--	5.1																
Poplar Ditch	5.8 L	Gravity	19		3907	2430	2219	1963	4154	5902	5887	5692	5254	2123			39570
--MAIN STREET BRIDGE--	5.9																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0																
Hubbs-Miner Ditch	6.4 R	Gravity							54	212	326	536	429	230			1787
--STATE HIGHWAY 65 BRIDGE--	6.6																
Rhodes-Fine Ditch	8.4 L	Gravity															
--OLIVE AVENUE BRIDGE--	9.9																
--FRIANT-KERN CANAL CROSSING--	10.5																
Woods-Central Ditch	11.0 L	Gravity			223	1625	3198	4675	5486	8257	7093						30557
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8																
--OTTLE BRIDGE--	14.4																
TULE RIVER																	
Total			421	143	4304	4975	5594	6872	10054	15220	14354	7887	7271	3779			80874
Average cubic feet per second			7	2	70	81	101	112	169	248	241	128	118	64			112
Monthly use in percent of seasonal			0.5	0.2	5.3	6.2	6.9	8.5	12.4	18.8	17.7	9.8	9.0	4.7			

Records furnished by the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE 8-8
DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1968 through September 1969

WATER USER	DIVERSION												ACREAGE IRRIGATED		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
<u>Friant-Kern Canal</u>				San Joaquin River ^a											
Total acre-feet diverted	1776.1	2015	2824	1250	21544	14364	526.7	1224.2	15986.4	246.24	6041	8884	108202		Not Available
Average cubic feet per second	289	34	46	20	388	238	88	199	2687	3860	422	1198	1491		
Monthly use in percent of seasonal	1.6	0.2	0.3	0.1	2.0	1.3	4.3	11.4	18.8	21.7	24.0	17.5			
<u>Madera Canal</u>															
Total acre-feet diverted	5244	0	0	0	16007	27128	24690	52951	68826	77768	75453	58864	403933		Not Available
Average cubic feet per second	85	0	0	0	288	441	415	861	1157	1265	1227	93	558		
Monthly use in percent of seasonal	1.3	0	0	0	4.0	6.7	6.1	13.1	17.0	19.3	18.7	13.8			
<u>Merced Irrigation District</u>				Merced River											
Main Canal	7109	1304	1353	1016	1333	4233	38813	10365.4	104393	114180	9386	8184	108287		
Northside Canal	498	137	95	30	0	0	1014	3777	3646	4209	4183	342	21018		
Total acre-feet diverted	7607	1441	1448	1046	1333	4233	40827	107431	108585	118389	113549	8531	591265	99721	6575
Average cubic feet per second	124	24	24	17	24	69	686	1747	1825	1925	1847	143	817		
Monthly use in percent of seasonal	1.3	0.2	0.2	0.2	0.2	0.7	6.9	18.2	18.4	20.0	19.2	14.5			
<u>Turlock Irrigation District</u>				Tuolumne River											
Total acre-feet diverted	42590	14260	6240	1020	70	5850	56570	100500	90090	105600	88170	84224	595180	172999	
Average cubic feet per second	693	240	101	17	1	95	951	1634	1534	1717	1434	1415	822		
Monthly use in percent of seasonal	7.2	2.4	1.0	0.2	0	1.0	9.5	16.9	15.1	17.7	14.8	14.2			
<u>Moderato Irrigation District</u>															
Total acre-feet diverted	5098	22292	85	122	4	3	36453	60903	58158	62400	49273	46900	341291	68427	
Average cubic feet per second	83	375	1	2	0	0	613	990	977	1015	801	781	471		
Monthly use in percent of seasonal	1.5	6.5	0	0	0	0	10.7	17.9	17.1	18.3	14.4	13.4			
<u>Waterford Irrigation District</u>															
Total acre-feet diverted	1845	0	0	0	0	0	4613	7852	7911	8499	6678	4724	41290	7338	
Average cubic feet per second	30	0	0	0	0	0	78	128	133	138	103	81	58		
Monthly use in percent of seasonal	4.4	0	0	0	0	0	10.9	18.6	18.8	20.1	15.8	11.4			
<u>Oakdale Irrigation District</u>				Stanislaus River											
Northside Canal	5108	0	0	0	0	276	11374	23334	22366	23453	23389	17488	126785	19745	3963
Southside Canal	8284	0	0	0	0	319	17769	31565	31432	32947	32959	26332	181607	34224	599
Total acre-feet diverted	13392	0	0	0	0	595	29143	54899	53798	56400	56348	43817	308392	53696	4562
Average cubic feet per second	218	0	0	0	0	10	490	893	904	917	916	734	426		
Monthly use in percent of seasonal	4.3	0	0	0	0	0.2	9.5	17.8	17.4	18.3	18.3	14.2			
<u>South San Joaquin Irrigation District</u>															
Total acre-feet diverted	4215	0	4826	6926	0	0	25577	47006	47978	52431	52627	24621	266207	63593	257
Average cubic feet per second	69	0	78	113	0	0	430	764	806	853	856	414	368		
Monthly use in percent of seasonal	1.6	0	1.8	2.6	0	0	9.6	17.7	18.0	19.7	19.8	9.2			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigators districts and published as received.
b An additional 86,208 acre-feet of water was pumped from wells.
c Of this acreage, 1369 were double cropped. Does not include an undetermined amount of riparian water users acreage.
d An additional 170,577 acre-feet of water was pumped from wells.
e Of this acreage, 22,303 were double cropped.
f An additional 39,286 acre-feet of water was pumped from wells.
g Of this acreage, 6130 were double cropped.

h An additional 600 acre-feet of water was pumped from wells.
i Of this acreage, 0 were double cropped.
j Of this acreage, 383 were double cropped.
k Of this acreage, 408 were double cropped.
l This acreage also received 32,616 acre-feet of water from wells and controlled drainage.
m This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 1978 were double cropped. Includes 1016 acres served by subirrigation.

TABLE B-9

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1968 through September 1969

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
			<u>Delta Mendota Canal</u>												
Plain View Water District	4.22	20.96	580	49	3	2	2	11	1143	3704	3248	4112	3324	1724	17902
Carnazzo Land Company, Incorporated	6.96		1	1	1	1	1	0	0	0	0	0	0	0	0
Asbury Contractor, Incorporated	7.67		0	0	0	0	0	0	0	0	0	4	5	4	13
Westside Irrigation District	14.79		0	0	0	0	0	65	153	1546	927	1644	902	113	5358
Hospital Water District	18.05	30.96	790	21	127	3	6	173	1643	5255	3800	5144	3877	1799	22588
Banta-Carbonsa Irrigation District	20.42		60	2	0	0	0	0	196	1726	1461	2381	1135	105	7086
Gordon M. Ball, Incorporated	22.50		0	0	0	0	0	0	0	0	0	0	1	0	1
Kern Canon Water District	31.31	35.18	164	0	0	1	0	64	788	1314	1712	1468	1638	754	7903
West Stanislaus Irrigation District	31.31	38.14	0	0	0	0	0	0	0	1135	600	3328	1734	0	6780
Del Puerto Water District	35.73	42.51	285	0	0	1	0	17	950	3088	2593	3006	2581	852	13373
Salado Water District	42.10	46.83	19	0	0	0	0	169	834	1274	1498	2097	879	280	7050
Patterson Water District	42.51		114	0	0	0	10	132	179	887	816	572	2194	1022	5926
Sunflower Water District	44.22	52.02	309	209	0	0	0	43	1264	1683	2444	2742	2348	959	12000
Orestimba Water District	46.83	51.41	123	151	0	0	1	212	1796	1566	2040	3316	1439	168	10814
A. Teichert & Son, Incorporated	51.41		0	0	0	0	0	0	0	0	0	3	5	5	13
Foothill Water District	51.65	57.46	152	129	0	1	1	73	592	1523	1667	1953	1435	746	8272
Davis Water District	53.64	56.82	23	22	0	0	0	0	282	712	781	769	637	577	3823
Mustang Water District	56.80	62.67	42	0	0	0	0	16	534	1180	1296	1978	1894	696	7638
Central California Irrigation District	58.26	76.05	441	0	0	0	0	0	381	5010	3997	8267	2248	2248	30592
Quinto Water District	64.32	67.55	1	68	0	0	0	8	286	1123	1421	1532	1410	599	6448
Romero Water District	66.70	68.03	137	0	0	0	0	189	610	556	529	711	433	3165	
San Luis Water District, Municipal and Industrial	69.21		11	1	0	1	0	3	11	22	22	22	24	15	132
San Luis Water District	69.21	90.53	2754	1125	980	1619	821	2591	6662	11752	11049	10929	10089	2198	62569
Grasslands	70.00		11716	2535	0	0	0	0	0	0	0	0	0	4301	18552
Sam Hamburg Farms	90.53		3	3	2	2	3	4	1	4	6	5	5	4	42
Panoche Water District	93.25	96.70	1635	1487	137	147	2095	3115	7463	10431	8340	11550	8702	2799	57901
Eagle Field Water District	93.27	94.57	60	15	0	0	351	39	219	608	560	708	269	112	2961
Oro Loma Water District	95.50	96.62	0	0	0	0	0	0	329	1457	1063	1233	978	22	5082
West Side Golf Club	95.95		10	3	3	0	2	4	7	15	16	17	20	15	112
Mercy Springs Water District	97.70	99.81	0	0	0	0	0	0	367	1314	842	1143	1455	697	5818
Panoche Water District, Municipal and Industrial	100.85		0	0	0	0	0	0	0	0	0	0	0	1	1
Wadren Water District	102.03		0	0	0	0	0	0	55	477	299	411	439	62	1743
Broadview Water District	102.95		160	1108	119	0	424	371	941	2266	3035	2989	1112	391	12916
Firebaugh Canal Company	107.85	109.45	0	0	0	0	0	0	0	0	0	5286	8127	293	13706
Total			19610	6929	1372	1778	3717	7110	27265	61632	56092	79154	69637	23991	358287
Net Deliveries DMC to Mendota Pool	115.62		74860	21971	1585	0	0	0	0	0	0	32456	145234	131823	377929
Net Deliveries DMC to O'Neill Forebay	69.30		141500	121087	68238	181843	170333	131353	86637	78137	53152	53059	49455	7206	1142000
			<u>Madera Canal</u>												
Madera Irrigation District	6.10	32.2	5336	0	0	0	781	2103	14440	25825	34239	45351	43083	27487	198612
Adobe Ranch	20.6		0	0	0	0	0	0	0	0	0	0	0	0	0
Chowchilla Water District	35.9		0	0	0	0	0	3146	9892	16396	27932	30463	30840	26504	144873
Total			5336	0	0	0	781	5249	24332	42221	62141	75814	7362	53991	343485

FILE B - Canal
 FEDERAL BUREAU OF SURVEY
 U.S. CENTRAL OFFICE
 Project - 96-16 - Month - Sept.

WATER USER	MILE POST FROM CANAL HEAD FROM TO	MONTHLY DELIVERIES IN ACRES- FEET												TOTAL			
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT				
		Waller-Lake															
Fresno County Water Dist. 1211			4					3	4							1	7
County of Madera			1		1				1		2		2	2			12
Millerton Lake Development Corporation			3					3									
Total			5	1	2			2	4	4	18	16	23	23	1		115
		Friant-Way Canal															
Garfield Water District	14.8	179	117	166					33	45	46 ^a		45 ^a	11			2763
Dog Creek Water District	14.9	142	11							0	166	29 ^a					1431
International Water District	17.63	0	0	0	0	0	0	0	0	0	21	21	3	12			67
Academy Water District	21.85 & 21.33	0	0	0	0	0	0	0	0	16	21	32	31	3			131
Round Mountain Water District	20.22	0	24					0	0	0	0	0	0				24
Round Mountain Ranch	27.56	0	0	0	0	0	0	0	0	0	32	4	60				204
Trimmer Springs Water District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Consolidated Irrigation District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Last Chance Water Ditch Company	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Laguna Irrigation District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Corcoran Irrigation District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Stratford Irrigation District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Tulare Lake Basin Water Storage District	26.50 & 95.64	0	0	0	0	0	0	0	0	0	0	0	3				3
Alta Irrigation District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
City of Fresno	25.51	0	0	0	0	0	0	0	0	0	3	0	1010				1013
Fresno Irrigation District	25.51 & 26.50	0	0	2674	1714	0	0	0	0	0	0	0	0	4320			8708
Murphy Slough Association	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Kings River Water Association	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Empire Westside Irrigation District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Kings County Water District	26.50	0	0	0	0	0	0	0	0	0	0	0	0				0
Orange Cove Irrigation District	35.67 & 53.31	1452	6	0	0	0	0	161	3545	3975	6224	6114	4443				20462
City of Orange Cove	43.44	12	0	0	0	0	0	0	11	36	39	55	55	43			251
Stone Corral Irrigation District	56.90	64.40	272	3	0	0	0	63	702	811	1706	1775	1129				6461
Ivanhoe Irrigation District	65.04	68.13	1113	797	0	0	0	165	430	2487	1849	1633	2826	257 ^a			14037
Tulare Irrigation District	68.14	71.29	0	0	0	0	0	0	0	0	0	0	28263	40473	57575		126311
Lakeside Irrigation Water District	69.42	0	0	0	0	0	0	0	0	0	0	0	0				0
Kaweah-Delta Water Conservation District	69.08	71.29	0	0	0	0	0	0	0	0	0	10413	28967	33623			53001
Exeter Irrigation District	72.52	79.24	563	46	0	0	26	270	3229	3035	4691	4392	3378				20431
Lewis Creek Water District	81.54	42	0	0	0	0	0	0	214	224	247	251	211				1166
Lindsay-Strathmore Irrigation District	85.56	1701	188	0	0	0	0	87	3031	3759	4755	4939	4131				22591
Lindner Irrigation District	86.17	91.12	1718	148	0	0	0	91	921	6169	8528	10912	10122	6341			45010
Porterville Irrigation District	91.93	98.62	328	0	0	0	0	98	1133	2220	2646	3769	3203				15369
Lower Tule Irrigation District	95.67	98.62	0	0	0	0	1073	2551	6885	10042	19898	30536	33011	30913			134931
Tea Pot Dome	99.35	283	4	0	0	0	0	5	40	534	688	892	915				4078
Saucelito Irrigation District	98.62	107.7	421	0	0	0	90	330	2383	5165	8096	9816	8621	3906			38827
Cloer Community Service District	101.60	0	0	0	0	0	0	0	21	21	16	6	14	24			102
Terra Bella Irrigation District	102.65	830	34	0	0	0	0	0	1856	2859	3179	3279	2600				14685
Pixley Irrigation District	102.69	0	0	0	0	0	0	0	629	5935	8957	8202	5911				29424
Delano-Earlham Irrigation District	119.48	118.45	2709	1599	329	0	95	1771	9562	21737	30984	34628	25946	11863			141223
Alpaugh Irrigation District	112.96	0	0	0	0	0	0	0	0	0	1143	242	2717	414			6694
Southern San Joaquin Municipal Utility District	117.44	127.97	2868	990	77	0	0	1993	9796	14674	21360	25825	23889	10542			112134
Rag Gulch Water District	117.96	0	0	0	0	0	0	0	443	1442	1863	2144	1902	1168			8962
Kern County Water Agency	130.68	0	0	0	0	0	0	0	0	0	0	0	0				0
Shafter-Masco Irrigation District	134.42	137.1	1577	309	16	0	119	1323	3786	5478	8844	10751	9622	3811			45992
Pacific Gas & Electric Company	150.83	0	0	0	0	0	0	0	0	0	0	0	0				0
Rosedale Rio Bravo Water Storage District	151.0	0	0	0	0	0	0	0	0	0	0	3	0				3
Buena Vista Water Storage District	151.80	0	0	0	0	0	0	0	0	0	0	0	0				0
Arvin-Edison Water Storage District	151.80	486	2563	3786		221	1787	12711	37346	53279	82676	27333	14777				144777
Disco Incorporated	150.63	0	0	0	0	0	0	0	0	0	0	0	0				0
Total		16655	6832	7449	1146	338	994	4797	122896	17177	24714	32471	38141	40611			1046266

Data furnished by the Bureau of Reclamation. Acre-feet values are published as received and are not adjusted to the criteria used by the Department of Water Resources. Deliveries include operational spill.

^a Includes water transported from Muckwiltia.

^b Does not include 6,306 acre-feet deliveries from Kern River.

TABLE B-10
 DELIVERIES FROM CALIFORNIA AQUEDUCT^a
 October 1968 through September 1969

WATER USER	MONTHLY DELIVERIES IN ACRE FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
	<u>North San Joaquin Division</u>												
South Bay Aqueduct	9584	5354	5748	4632	979	1318	1838	702	1471	5255	8055	8411	53347
Oak Flat Water District	0	0	0	0	0	38	440	487	609	1057	224	36	2891
Total	9584	5354	5748	4632	979	1356	2278	1189	2080	6312	8279	8447	56238
	<u>O'Neill Forebay</u>												
San Luis Water District Total	104	102	8	8	7	49	335	648	507	713	458	383	3322
	<u>San Luis Division</u>												
San Luis Water District	0	0	37	90	0	257	308	680	1029	2386	1019	314	6120
Panoche Water District	498	569	1782	2135	1943	1206	1906	3436	2959	3761	2926	859	23980
Westlands Water District	17441	11724	11480	12771	6135	3015	16922	29446	37842	43865	36990	16321	243952
City of Huron	0	0	3	2	0	0	0	3	31	64	68	55	226
Total	17939	12293	13302	14998	8078	4478	19136	33565	41861	50076	41003	17549	274278
	<u>South San Joaquin Division</u>												
Kings County	0	0	900	100	0	0	0	0	0	0	0	0	1000
Empire West Side Irrigation District	0	838	1140	56	0	0	0	0	0	0	0	0	2034
Tulare Lake Basin Water Storage District	3635	8865	9243	7081	0	0	0	0	0	0	0	0	28824
Hacienda Water District	0	0	0	0	0	0	0	231	769	1089	655	0	2744
Oudley Ridge Water District	138	346	868	2416	66	189	885	3358	6855	6608	6427	698	28854
Kern County Water Agency	2034	2292	2490	516	545	2299	6176	11193	14703	20425	16792	7209	86674
Total	5807	12341	14641	10169	611	2488	7061	14782	22327	28122	23874	7907	150130
	<u>Coastal Branch</u>												
Devils Den Water District	0	0	721	1037	667	0	426	482	1721	1888	2019	293	9254
Kern County Water Agency	942	789	2384	1539	198	329	5910	5031	8491	12396	11505	3072	52586
Total	942	789	3105	2576	865	329	6336	5513	10212	14284	13524	3365	61840
Delta Pumping Plant to California Aqueduct	142256	156534	158159	172496	91543	70267	74540	59932	29220	32337	34163	10536	1031983

^a Does not include operational losses or changes in storage.

TABLE 8-11
IMPORTS AND EXPORTS
October 1968 through September 1969

WATER USER	IN ACRE-FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
	<u>Imports from Delta</u>												
California Aqueduct (a)	123900	151700	151300	167400	90020	69780	72130	58290	26990	26120	25140	1742	964500
Delta-Mendota Canal	233010	136630	67960	177210	166450	135610	112160	134460	112450	166180	268420	133420	164396
Total Import from Delta	356900	288300	219300	344600	256500	205400	184300	192800	139400	192300	293600	135200	2608000
	<u>Exports from Tuolumne River</u>												
City and County of San Francisco (b)	25781	22165	23504	6210	5659	7311	14400	18460	20940	21582	21483	21033	208528

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco; acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

(a) Water delivered to San Luis Division including deliveries to Oak Flat Water District.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-12

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				DRY	NR	NR	187.06	189.98	190.73	192.34	191.46	NR	1
2				DRY	183.70	184.50	187.09	190.02	190.74	192.30	191.44	NR	2
3				DRY	184.07	184.20	187.16	190.08	190.76	192.30	191.41	190.39	3
4				DRY	184.41	184.10	187.22	190.14	190.84	192.23	NR	190.36	4
5				DRY	184.75	184.42	187.28	190.20	190.84	192.21	191.35	NR	5
6				DRY	185.00	184.67	187.36	190.26	191.00	192.20	191.32	NR	6
7				DRY	185.18	184.76	187.50	190.32	191.14	192.18	NR	NR	7
8				DRY	185.35	184.95	187.65	190.38	191.23	192.16	191.23	NR	8
9				DRY	185.55	185.20	187.76	190.45	191.34	192.14	191.19	NR	9
10				DRY	185.80	185.36	187.88	190.49	191.47	192.10	NR	NR	10
11				DRY	186.10	185.53	188.00	190.53	191.60	192.08	NR	NR	11
12				DRY	186.40	185.74	188.24	190.57	191.74	192.05	NR	NR	12
13				DRY	186.33	185.86	188.32	190.50	191.87	192.06	191.09	NR	13
14				DRY	186.43	185.97	188.46	190.54	191.90	192.06	NR	NR	14
15				DRY	186.57	186.11	188.50	190.56	191.95	192.00	NR	NR	15
16	D		D	DRY	NR	186.19	188.62	190.56	192.06	191.98	NR	NR	16
17	R		R	DRY	186.77	186.26	188.75	190.60	192.16	191.95	NR	NR	17
18	Y		Y	DRY	186.92	186.50	188.94	190.64	192.20	191.93	190.81	NR	18
19				DRY	187.08	186.55	188.98	190.70	192.27	191.90	NR	NR	19
20				DRY	187.18	186.11	189.10	190.72	192.35	NR	NR	NR	20
21				NR	187.27	186.02	189.20	190.74	192.40	191.84	NR	NR	21
22				NR	187.23	186.08	189.30	190.69	192.43	191.80	NR	NR	22
23				NR	187.23	186.16	189.27	190.70	192.46	191.78	NR	NR	23
24				NR	187.23	186.23	189.37	190.71	192.50	191.76	NR	NR	24
25				NR	187.39	186.38	189.42	190.71	192.46	NR	190.64	NR	25
26				180.05	NR	186.46	189.55	190.72	192.45	NR	NR	NR	26
27				181.54	186.92	186.55	189.66	190.72	192.45	NR	190.60	NR	27
28				182.66	186.02	186.61	189.75	190.65	192.42	NR	190.56	NR	28
29				183.35		186.70	189.82	190.65	192.40	191.58	190.50	189.70	29
30				NR	NR	186.79	189.90	190.66	192.35	NR	191.53	NR	30
31				NR	NR	186.88		NR		191.50	NR	NR	31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
6-24-69		192.50									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM		
			CFS	GAGE HT.	DATE			FROM	TO			
30 03 10	119 49 35			196.8		6-28-41			1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company. During this water year the inundated area of the lake basin was 88,700 acres. Daily mean inflow to the lake is shown in Table B-5, page 106.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1969	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.18	2.04	1.87	1.70	9.45	8.71	8.58	8.87	9.67	5.32	2.39	1.82	1
2	2.19	2.05	1.87	1.70	9.53	9.08	8.02	9.05	9.89	5.32	2.40	1.82	2
3	2.19	2.06	1.87	1.71	9.53	9.12	7.34	9.04	10.49	5.33	2.40	1.82	3
4	2.19	2.01	1.87	1.71	9.57	9.19	7.07	8.73	11.02	5.34	2.40	1.82	4
5	2.19	1.98	1.81	1.72	9.59	9.33	7.18	7.78	11.44	5.34	2.39	1.79	5
6	2.18	1.98	1.70	1.72	9.45	9.57	7.80	6.32	11.67	5.35	2.39	1.79	6
7	2.18	1.94	1.70	1.73	9.41	9.71	8.29	8.68	11.65	5.16	2.38	1.80	7
8	2.18	1.90	1.70	1.73	9.47	9.75	8.50	9.58	11.66	4.66	2.28	1.79	8
9	2.14	1.90	1.70	1.73	9.48	9.76	8.89	9.69	11.68	4.22	2.13	1.78	9
10	2.12	1.87	1.71	1.74	9.52	9.43	8.53	9.66	11.64	4.22	2.13	1.78	10
11	2.07	1.82	1.71	1.74	9.55	9.53	7.75	9.66	11.47	4.22	2.13	1.83	11
12	2.05	1.83	1.71	1.74	9.53	9.63	7.21	9.62	10.92	4.22	2.12	2.02	12
13	2.06	1.83	1.71	1.91	9.53	9.64	7.07	9.60	10.36	4.22	2.12	2.00	13
14	1.98	1.84	1.73	2.18	9.40	9.71	7.26	9.62	10.07	4.22	2.02	1.97	14
15	1.91	1.84	1.73	1.88	9.32	9.73	7.60	9.66	10.07	4.23	1.95	1.97	15
16	1.90	1.84	1.72	1.83	9.29	9.75	7.57	9.69	10.07	4.23	1.96	1.98	16
17	1.87	1.84	1.72	1.81	9.26	9.76	7.21	9.64	10.07	3.97	1.97	2.01	17
18	1.83	1.84	1.72	1.94	9.19	9.76	6.97	9.62	10.07	2.87	1.97	2.01	18
19	1.83	1.84	1.73	2.86	8.96	9.78	6.84	9.66	9.81	2.34	1.97	2.01	19
20	1.83	1.84	1.73	2.58	8.98	9.78	6.84	9.66	9.23	2.22	1.96	2.01	20
21	1.83	1.84	1.73	3.34	8.88	9.68	6.85	9.62	8.52	2.21	1.95	2.01	21
22	1.83	1.84	1.73	2.81	8.84	9.73	6.62	9.65	7.90	2.27	1.93	2.00	22
23	1.83	1.84	1.74	2.90	8.89	9.75	6.35	9.65	7.01	2.38	1.93	2.00	23
24	1.85	1.84	1.75	4.55	8.07	9.78	6.35	9.65	5.62	2.57	1.95	2.00	24
25	1.90	1.84	1.76	6.49	7.36	9.79	6.24	9.66	5.28	2.75	1.96	2.00	25
26	1.93	1.84	1.77	6.67	8.10	9.79	5.91	9.65	5.29	2.70	1.90	2.00	26
27	1.97	1.84	1.76	6.81	8.52	9.38	6.07	9.65	5.29	2.56	1.80	2.00	27
28	2.00	1.85	1.76	7.84	8.60	8.68	6.17	9.65	5.30	2.40	1.80	1.99	28
29	2.05	1.86	1.76	9.18		8.37	6.81	9.67	5.31	2.39	1.81	1.99	29
30	2.05	1.86	1.76	9.20		8.35	8.15	9.64	5.31	2.39	1.81	1.93	30
31	2.04		1.72	9.32		8.56		9.68		2.39	1.81		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	2- 5-69	1600	9.63	5- 2-69	0630	9.06						
NR - NO RECORD	2-24-69	1430	10.40	5-10-69	0800	9.74						
NF - NO FLOW	3-24-69	1300	9.84	6- 6-69	1500	11.69						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM	
			CF5	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07575	SAN JOAQUIN RIVER ABOVE SAND SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	100.65		NF	101.22	110.10	110.85	110.21	109.04	109.96	108.67	100.66	103.49	1
2	100.54		NF	101.17	110.20	110.82	110.12	109.58	110.02	108.60	100.63	103.51	2
3	100.68		NF	101.12	110.33	110.80	110.07	109.76	110.01	108.44	100.69	103.48	3
4	100.71		NF	101.09	110.41	110.87	110.00	109.74	110.07	108.30	100.74	103.50	4
5	100.84		NF	101.06	110.44	110.80	109.80	109.77	110.23	108.29	100.81	103.55	5
6	100.77		NF	101.03	110.51	110.71	109.97	109.66	110.43	108.02	100.81	103.48	6
7	100.65		NF	101.00	110.67	110.78	110.34	109.35	110.65	107.50	100.79	103.46	7
8	100.56		NF	100.97	110.62	110.84	110.31	109.32	110.83	106.99	100.68	103.39	8
9	100.57		NF	100.96	110.53	110.88	110.22	109.71	110.89	106.32	100.68	103.39	9
10	100.52		NF	100.91	100.52	110.96	110.24	109.91	110.94	105.87	100.61	103.50	10
11	100.59		NF	100.89	110.52	111.12	110.34	109.96	110.97	105.21	100.80	103.55	11
12	100.48	N	NF	100.87	110.51	111.01	110.25	109.94	111.00	104.79	100.71	103.45	12
13	100.47	O	NF	100.89	110.49	110.98	110.07	109.94	110.94	104.45	100.63	103.42	13
14	100.45		NF	101.00	110.48	110.93	109.92	109.93	110.80	104.31	100.57	103.32	14
15	100.42		NF	105.53	110.47	110.87	109.83	109.92	110.67	104.31	100.55	103.14	15
16	100.42	F	NF	104.37	110.50	110.85	109.83	109.88	110.62	104.25	100.39	103.02	16
17	100.41	L	NF	103.10	110.55	110.84	109.94	109.88	110.60	104.11	100.60	102.97	17
18	100.44	O	NF	102.63	110.53	110.83	109.76	109.90	110.57	103.96	100.64	102.78	18
19	100.52	W	101.00	102.81	110.67	110.84	109.63	109.88	110.54	104.56	100.76	102.41	19
20	100.52		101.56	107.91	110.74	110.87	109.53	109.94	110.48	104.95	101.21	102.11	20
21	100.50		101.60	107.58	110.66	110.86	109.44	109.96	110.39	104.69	101.34	102.04	21
22	100.56		101.59	108.55	110.65	110.99	109.42	109.96	110.05	104.06	102.12	102.30	22
23	100.56		101.58	108.17	110.59	110.92	109.37	109.95	109.72	103.80	102.26	102.57	23
24	100.69		101.61	108.28	110.93	110.90	109.24	109.95	109.48	103.68	102.25	102.43	24
25	100.60		101.60	108.24	111.65	110.90	109.19	109.95	109.14	103.54	102.67	102.34	25
26	100.67		101.59	109.51	111.51	110.92	109.21	109.98	108.89	103.43	102.67	102.38	26
27	100.66		101.51	109.38	111.24	110.76	109.21	110.06	108.76	102.23	102.49	102.27	27
28	100.41		101.45	109.35	110.94	110.64	109.08	110.08	108.73	102.59	102.76	102.18	28
29	100.38		101.40	109.58		110.46	109.00	110.09	108.71	101.80	103.04	102.14	29
30	NF		101.35	109.98		110.26	108.86	110.08	108.69	101.08	103.05	102.07	30
31	NF		101.28	110.08		110.22		110.04		100.70	103.38		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-24-68	1800	101.62	2-9-69	1630	110.54	4-11-69	1930	110.36			
1-15-69	0815	106.16	2-25-69	0900	111.79	6-12-69	1130	111.00			
1-26-69	0645	109.59	3-11-69	0300	111.15	9-2-69	0500	103.54			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 06 36	120 35 24	NE31 95 13E		111.79		2-25-69	OCT 61-SEP 62	OCT 62-SEP 69	1961	1969	0.00	USCGS

Station located 5 miles northwest of Santa Rita Bridge and 5 miles west of El Nido on left bank of the San Joaquin River .5 mile above confluence with Eastside Bypass. Stationed discontinued 9-30-69.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	61.51	60.97	61.47	63.86	74.66	75.43	74.03	71.75	73.85	71.21	64.88	64.93	1
2	61.42	61.01	61.47	63.37	74.59	75.39	74.02	72.20	73.82	71.13	64.91	64.98	2
3	61.30	61.07	61.48	62.70	74.58	75.27	74.01	73.31	73.82	70.97	64.92	65.25	3
4	61.42	61.11	61.44	62.32	74.60	75.23	73.96	73.56	73.82	70.74	64.91	65.48	4
5	61.59	61.48	61.41	61.95	74.63	75.15	73.90	73.55	73.90	70.45	64.89	65.55	5
6	61.47	61.70	61.36	61.85	74.63	74.96	73.84	73.53	74.15	70.23	64.80	65.41	6
7	61.40	61.50	61.30	61.84	74.78	74.89	74.42	73.27	74.40	69.79	64.75	65.58	7
8	61.30	61.44	61.25	61.94	74.99	74.90	74.48	72.48	74.62	68.61	64.70	66.09	8
9	61.24	61.38	61.31	62.10	74.81	74.91	74.35	72.52	74.74	67.86	64.69	65.93	9
10	61.23	61.51	61.35	62.04	74.68	74.92	74.22	73.39	74.80	67.34	64.53	65.52	10
11	61.20	61.45	61.33	61.93	74.62	75.07	74.21	73.71	74.85	66.82	64.51	65.28	11
12	61.16	61.48	61.43	61.90	74.58	75.06	74.17	73.75	74.86	66.31	64.56	65.51	12
13	61.14	61.62	61.51	62.34	74.53	74.93	73.98	73.75	74.85	65.99	64.71	65.55	13
14	61.21	61.82	61.65	64.48	74.56	74.90	73.78	73.75	74.75	65.80	64.77	65.62	14
15	61.11	61.87	61.81	69.48	74.52	74.82	73.58	73.74	74.53	65.64	64.75	65.75	15
16	61.05	62.26	62.03	71.13	74.57	74.77	73.51	73.75	74.37	65.69	64.77	65.82	16
17	61.02	62.40	62.07	69.72	74.77	74.74	73.54	73.73	74.32	65.55	64.77	65.81	17
18	61.01	62.25	62.09	67.93	74.82	74.71	73.56	73.72	74.27	65.21	64.85	65.78	18
19	61.10	62.14	61.88	68.00	74.95	74.71	73.44	73.73	74.23	65.14	64.91	65.68	19
20	61.14	62.11	61.75	70.26	75.17	74.71	73.25	73.72	74.18	65.08	65.00	65.62	20
21	61.19	62.12	61.77	73.14	75.11	74.72	73.09	73.76	74.08	65.52	65.01	65.58	21
22	61.13	62.07	61.70	73.90	75.03	74.82	72.95	73.78	73.97	65.70	65.00	65.50	22
23	60.99	62.01	61.70	74.53	74.94	74.82	72.89	73.78	73.66	65.36	64.81	65.40	23
24	61.09	61.86	61.87	74.21	75.09	74.77	72.77	73.78	73.27	65.13	64.75	65.13	24
25	61.12	61.87	62.01	73.86	75.88	74.74	72.60	73.79	72.87	64.96	64.81	65.07	25
26	61.10	61.92	62.27	74.43	76.20	74.73	72.58	73.82	72.21	64.88	64.92	65.11	26
27	60.99	61.66	64.19	75.08	76.03	74.67	72.66	73.76	71.67	64.85	64.98	65.00	27
28	61.04	61.58	65.75	75.01	75.67	74.55	72.51	73.91	71.40	64.87	65.01	64.89	28
29	61.11	61.55	65.34	74.73	74.46	74.46	72.25	73.92	71.30	64.92	65.00	64.85	29
30	61.06	61.51	64.76	74.58	74.23	72.05	73.90	71.25	64.88	65.00	64.60	64.60	30
31	61.00		64.31	74.68	74.07		73.89		64.87	64.97			31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11-5-68	2215	62.08	1-27-69	2200	75.14	6-11-69	2100	74.87			
11-17-68	0100	62.44	2-26-69	1030	76.23	7-9-69	1430	68.08			
12-28-68	0700	65.88	3-11-69	1900	75.13	9-8-69	2300	66.13			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flow regulated by upstream reservoirs and diversions.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1969	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55.26	54.80	55.10	57.08	66.57	67.32	65.95	64.67	65.93	63.88	56.91	56.92	1
2	55.18	54.88	55.11	56.76	66.49	67.24	65.94	64.69	65.91	63.84	56.87	57.04	2
3	55.18	54.97	55.16	56.35	66.45	67.19	65.93	65.16	65.91	63.72	56.93	57.13	3
4	55.13	55.07	55.28	55.98	66.44	67.17	65.90	65.52	65.92	63.56	56.89	57.35	4
5	55.14	55.32	55.29	55.67	66.45	67.05	65.89	65.59	65.96	63.33	56.89	57.42	5
6	55.03	55.64	55.19	55.46	66.45	66.90	65.78E	65.61	66.07	63.12	56.88	57.23	6
7	54.92	55.51	55.10	55.35	66.55	66.78	65.93E	65.50	66.26	62.86	56.80	57.42	7
8	54.86	55.41	55.10	55.35	66.85	66.75	66.05E	65.22	66.46	62.20	56.74	58.24	8
9	54.81	55.32	55.04	55.41	66.89	66.74	66.17	64.97	66.62	60.70	56.65	58.47	9
10	54.80	55.37	55.08	55.44	66.76	66.73	66.10	65.32	66.70	60.26	56.52	58.04	10
11	54.77	55.34	55.22	55.39	66.68	66.79	66.05	65.61	66.76	59.44	56.46	57.63	11
12	54.76	55.43E	55.24	55.37	66.66	66.83	66.04	65.71	66.76	58.91	56.57	57.48	12
13	54.76	55.48	55.31	55.89	66.59	66.74	65.94	65.74	66.71	58.36	56.59	57.53	13
14	54.79	55.54	55.38	56.90	66.56	66.68	65.81	65.72	66.61	58.13	56.52	57.51	14
15	54.81	55.61	55.54	60.54	66.53	66.63	65.69	65.74	66.43	58.03	56.60	57.66	15
16	54.69	55.79	55.76	63.12	66.52	66.57	65.63	65.80	66.27	57.96	56.71	57.79	16
17	54.71	55.99	55.84	63.34	66.66	66.53	65.61	65.80	66.18	58.11	56.68	57.71	17
18	54.63	55.98	55.81	62.38	66.82	66.51	65.61	65.79	66.14	57.69	56.74	57.69	18
19	54.60	55.93	55.72	61.83	66.88	66.51	65.58	65.80	66.10	57.45	56.78	57.64	19
20	54.55	55.82	55.60	62.56	67.09	66.49	65.48	65.80	66.06	57.43	56.72	57.57	20
21	54.61	55.73	55.54	64.48	67.13	66.49	65.39	65.81	65.99	57.63	56.89	57.56	21
22	54.66	55.65	55.49	65.50	67.03	66.52	65.31	65.83	65.93	58.06	56.90	57.56	22
23	54.62	55.61	55.46	66.16	66.95	66.59	65.29	65.81	65.78	57.82	56.88	57.52	23
24	54.56	55.59	55.46	66.31	66.97	66.53	65.21	65.81	65.55	57.38	56.75	57.28	24
25	54.66	55.59	55.58	66.12	67.50	66.49	65.14	65.83	65.30	57.20	56.81	57.07	25
26	54.65	55.59	55.71	66.16	68.02	66.47	65.11	65.85	64.96	57.16	56.94	57.15	26
27	54.61	55.50	55.46	66.93	67.94	66.44	65.11	65.89	64.55	57.06	57.00	57.16	27
28	54.61	55.31	57.95	67.08	67.52	66.36	65.08	65.91	64.24	57.15	56.97	57.09	28
29	54.67	55.22	58.14	66.69		66.28	64.96	65.94	64.03	57.09	56.95	57.04	29
30	54.72	55.18	57.78	66.58		66.15	64.85	65.95	63.93	57.15	57.03	56.91	30
31	54.79		57.39	66.56		66.01		65.95		56.97	57.03		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	12-28-68	2245	58.24	6-11-69	2130	66.78						
NR - NO RECORD	1-28-69	0545	67.20	9- 9-69	0400	58.54						
	2-26-69	1330	68.05 _a									

NF - NO FLOW

a - SEE (a) BELOW

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B. & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.			FROM	TO		
37 18 35	120 55 45		8260b	68.02	2-27-69	MAR 37-DATE	1944	1957	-3.73	USCGS
							1957	1959	-3.77	USCGS
							1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a The maximum gage height of 68.05 does not represent the maximum discharge, which occurred at gage height 68.02 feet on 2-27-69.

b Maximum discharge of 8,260 cfs is only for San Joaquin River channel. During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B0 5170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.67	7.18	6.19	6.29	6.35	12.39	10.77	10.15	12.74	8.51	7.63	8.28	1
2	5.33	6.33	6.19	6.27	6.33	12.42	10.76	10.15	12.87	8.50	7.62	8.27	2
3	5.06	6.37	6.19	6.27	6.32	12.43	10.76	10.15	12.89	8.51	7.58	8.35	3
4	5.10	6.26	6.19	6.26	6.33	12.42	10.73	10.15	12.91	8.54	7.58	8.39	4
5	5.29	6.13	6.19	6.25	7.02	12.39	11.19	10.12	13.08	8.78	7.62	8.40	5
6	5.35	6.10	6.19	6.24	10.77	12.40	11.21	10.00	13.10	8.86	7.58	8.38	6
7	5.36	6.11	6.19	6.24	11.81	12.42	11.13	9.96	13.10	9.06	7.64	7.79	7
8	5.52	6.13	6.19	6.24	12.36	12.43	11.08	10.01	13.09	8.66	7.70	8.47	8
9	6.24	6.13	6.19	6.39	12.53	12.44	10.99	10.31	13.00	8.49	7.70	8.46	9
10	6.24	6.13	6.20	6.15	12.52	11.95	10.95	10.36	12.67	8.50	7.72	8.50	10
11	6.27	6.15	6.20	6.18	12.49	11.21	10.83	10.38	11.96	8.18	7.24	8.53	11
12	6.31	6.20	6.20	6.27	12.51	11.20	10.77	10.40	10.93	7.68	6.62	8.55	12
13	6.44	6.16	6.19	6.89	12.49	11.17	10.76	10.74	10.36	7.67	6.65	7.92	13
14	6.84	6.17	6.27	7.33	12.45	11.17	10.86	11.07	10.29	7.68	6.65	7.12	14
15	7.25	6.23	6.24	6.42	12.54	11.17	11.13	11.30	10.27	7.70	7.82	8.32	15
16	7.27	6.20	6.26	6.32	12.40	11.17	11.04	11.41	10.26	7.64	7.89	7.33	16
17	7.26	6.18	6.24	6.31	12.44	11.16	10.98	11.46	10.28	7.61	7.93	7.46	17
18	7.21	6.17	6.23	6.34	12.38	11.16	10.97	11.51	10.28	7.63	7.95	7.68	18
19	7.32	6.16	6.23	7.61	12.47	11.16	10.82	11.69	9.75	7.57	7.95	7.78	19
20	7.31	6.17	6.22	6.66	12.40	11.17	10.63	11.94	8.78	7.49	7.94	7.87	20
21	7.36	6.17	6.22	8.52	12.40	11.20	10.57	12.04	8.72	7.55	7.92	7.96	21
22	7.40	6.17	6.26	7.07	12.40	11.16	10.42	12.08	8.66	7.54	8.00	8.04	22
23	7.43	6.18	6.43	6.49	12.40	11.15	10.46	12.07	9.07	7.55	8.03	7.45	23
24	7.40	6.18	6.28	6.40	12.27	11.15	10.55	12.09	10.43	7.59	8.02	6.74	24
25	7.40	6.21	6.40	7.82	11.98	11.14	10.44	12.07	10.92	7.60	7.93	6.75	25
26	7.38	6.20	6.75	7.38	11.40	11.13	10.36	12.11	10.54	7.60	8.06	6.74	26
27	7.36	6.20	6.36	6.65	11.27	10.99	10.43	12.25	9.73	7.43	8.18	6.77	27
28	7.37	6.19	6.32	6.58	11.60	10.86	10.33	12.26	8.86	7.40	8.15	6.86	28
29	7.41	6.18	6.31	6.55	10.73	10.73	10.26	12.33	8.63	7.46	8.18	6.88	29
30	7.44	6.18	6.28	6.40	10.86	10.86	10.20	12.49	8.57	7.52	8.23	6.96	30
31	7.46	6.21	6.40	6.38	10.84	10.84	10.84	12.57	7.55	7.55	8.27	6.96	31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-26-68	0715	7.44	1-21-69	1400	9.70	4- 5-69	1540	11.78			
1-14-69	0845	7.79	1-25-69	1215	8.75	6- 6-69	0400	13.12			
1-19-69	1015	8.75	2-15-69	2330	12.73	6-25-69	0400	11.00			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.95	12.10	10.58	10.82	11.45	19.35E	16.57	15.54	19.63	13.15	11.76	12.84	1
2	10.00		10.58	10.81	11.32	19.34E	16.57	15.53	19.93	13.02	11.75	12.86	2
3	10.04	11.08	10.57	10.73	11.23	19.32E	16.59	15.53	20.06	13.03	11.78	12.84	3
4	9.99	10.99	10.61	10.70	11.13	19.31E	16.57	15.52	20.09	13.06	11.74	12.98	4
5	9.93	10.82	10.58	10.68	11.12	19.30E	16.83	15.50	20.33	13.25	11.78	13.02	5
6	9.89	10.68	10.58	10.66	15.33	19.29	18.71	15.44	20.50	13.39	11.77	13.00	6
7	9.87	10.60	10.54	10.65	18.02	19.33	17.41	15.22	20.48	13.71	11.73	12.56	7
8	9.82	10.60	10.54	10.64	18.97	19.34	17.16	15.24	20.45	13.59	11.80	12.92	8
9	9.82	10.59	10.55	10.63	19.42	19.33	17.00	15.63	20.46	13.08	11.92	13.07	9
10	9.90	10.58	10.54	10.73	19.48	19.32	16.86	15.91	20.05	13.02	11.88	13.12	10
11	10.07	10.57	10.57	11.00	19.40	17.67	16.80	15.87	19.19	12.84	11.93	13.16	11
12	10.18	10.63	10.58	11.05	19.45	17.41	16.57	15.89	17.58	12.41	11.19	13.19	12
13	10.40	10.67	10.56	10.81	19.46	17.38	16.56	16.13	16.19	12.03	10.86	13.25	13
14	10.63	10.62	10.65	14.73	19.36	17.36	16.55	16.67	15.91	11.93	10.80	11.87	14
15	11.11	10.71	10.70	12.87	19.47	17.32	16.98	17.19	15.86	11.97	11.10	12.33	15
16	11.66	10.76	10.66	11.44	20.20	17.30	17.02	17.36	15.83	11.99	11.98	12.42	16
17	12.01	10.68	10.65	11.09	19.48	17.28	16.85	17.55	15.83	11.94	12.11	11.81	17
18	11.84	10.66	10.62	10.97	20.19	17.27	16.83	17.57	15.77	11.84	12.17	12.00	18
19	11.81	10.63	10.61	13.62	20.14	17.25	16.74	17.72	15.67	11.78	12.20	12.10	19
20	11.89	10.62	10.63	13.71	19.76	17.26	16.40	18.18	13.95	11.67	12.22	12.25	20
21	11.90	10.60	10.61	17.33	19.41	17.41	16.25	18.46	13.49	11.69	12.19	12.38	21
22	11.94	10.61	10.59	16.00	19.39	17.34	16.15	18.56	13.42	11.68	12.24	12.56	22
23	11.98	10.60	10.60	12.70	19.39	17.27	15.95	18.61	13.42	11.67	12.41	12.55	23
24	12.01	10.58	10.78	12.02	19.39	17.23	16.17	18.63	14.92	11.68	12.43	11.61	24
25	11.99	10.55	10.71	14.58	19.38	17.21	16.13	18.70	16.61	11.76	12.43	11.21	25
26	11.97	10.57	11.81	17.27	19.38	17.19	15.92	18.58	16.52	11.76	12.35	11.12	26
27	11.95	10.57	12.08	13.59	19.37	17.11	15.93	18.87	15.49	11.81	12.59	11.07	27
28	11.93	10.57	11.17	12.52	19.37	16.78	15.98	18.92	14.10	11.65	12.64	11.13	28
29	11.94	10.56	10.96	12.66		16.66	15.74	18.95	13.42	11.59	12.65	11.24	29
30	12.04	10.57	10.92	11.92		16.63	15.64	19.26	13.29	11.54	12.73	11.23	30
31	12.06		10.82	11.64		16.71		19.37		11.66	12.77		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	1-14-69	1500	16.15	4-6-69	0430	19.88						
NR - NO RECORD	1-21-69	1930	23.18	6-6-69	0915	20.52						
NF - NO FLOW	2-18-69	1545	21.09									

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M B & M	OF RECORD				DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
				32.67a	12-4-50				1962		86.24	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

TABLE B-12(Cont.)

WATER YEAR	STATION NO.	STATION NAME
1969	807300	SAN JOAQUIN RIVER NEAR NEWMAN

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	48.41	49.98	49.11	50.69	63.78	65.26	63.37	60.85	63.45	58.88	51.27	51.98	1
2	48.40	50.03	49.10	50.47	63.68	65.20	63.30	60.60	63.47	58.67	51.26	51.99	2
3	48.47	49.92	49.12	50.23	63.62	65.2 T	63.28	61.25E	63.51	58.50	51.31	52.10	3
4	48.49	49.58	49.20	49.92	63.62	65.1 T	63.24	61.60E	63.51	58.32	51.41	52.33	4
5	48.58	49.58	49.24	49.68	63.72	65.0 T	63.27	61.95E	63.52	58.07	51.30	52.43	5
6	48.34	49.69	49.16	49.47	63.80	64.9 T	63.34	62.05E	63.67	57.85	51.31	52.35	6
7	48.25	49.55	49.05	49.33	64.29	64.8 T	63.56	61.74	63.90	57.65	51.24	52.45	7
8	48.13	49.33	49.02	49.29	64.69	64.7 T	63.96	61.95	64.15	57.28	51.19	52.81	8
9	48.00	49.15	48.80E	49.29	64.73	64.7 T	63.90	61.36	64.37	56.11	51.16	53.12	9
10	48.03	49.08	48.70E	49.28	64.64	64.7 T	63.73	61.40	64.52	55.29	51.13	53.06	10
11	47.96	49.04	48.80E	49.27	64.61	64.7 T	63.59	62.12	64.58	54.60	51.13	52.89	11
12	48.05	49.01	48.90E	49.38	64.56	64.7 T	63.54	62.53	64.52	54.06	51.05	52.72	12
13	48.76	49.17	49.00E	49.91	64.50	64.7 T	63.42	62.62	64.34	53.40	50.73	52.72	13
14	49.18	49.30	49.20E	50.60	64.49	64.53	63.18	62.70	64.13	53.03	50.48	52.68	14
15	49.38	49.46	49.35E	54.01	64.48	64.49	62.91	62.80	63.90	52.74	50.48	52.12	15
16	49.49	49.60	49.60E	55.61	64.47	64.41	62.81	62.91	63.64	52.57	50.85	52.45	16
17	49.71	49.80	49.85E	56.22	64.58	64.37	62.73	62.99	63.45	52.58	51.18	52.27	17
18	49.82	49.82	49.70E	55.85	64.72	64.35E	62.70	63.00	63.35	52.33	51.33	51.90	18
19	49.15	49.75	49.60E	55.00	64.82	64.31	62.68	63.01	63.27	52.08	51.32	51.92	19
20	49.04	49.65	49.40E	56.14	64.95	64.29	62.51	63.01	63.16	51.94	51.40	51.89	20
21	49.09	49.60	49.30E	57.75	64.99	64.27	62.28	63.11	62.91	52.02	51.55	51.95	21
22	49.19	49.51	49.20E	62.31	64.90	64.30	62.06	63.20	62.71	52.18	51.51	52.08	22
23	49.34	49.47	49.10E	62.93	64.85	64.38	61.89	63.22	62.50	52.10	51.57	52.11	23
24	49.50	49.50	49.15E	63.39	64.88	64.34	61.76	63.24	62.14	51.78	51.65	51.90	24
25	49.61	49.54	49.35E	63.16	65.34T	64.28	61.70	63.21	61.95	51.61	51.70	51.38	25
26	49.67	49.53	50.00E	63.38	65.84T	64.25	61.59	63.24	61.78	51.55	51.68	51.14	26
27	49.68	49.52	50.45E	64.27	65.82T	64.22	61.54	63.26	61.25	51.58	51.75	51.04	27
28	49.81	49.38	51.50E	64.42	65.55T	64.11	61.52	63.36	60.53	51.59	51.82	50.95	28
29	49.77	49.27	52.20E	63.96	63.96	63.96	61.39	63.41	59.73	51.46	51.79	50.93	29
30	49.74	49.19	51.17	63.86	63.77	63.77	61.12	63.42	59.21	51.50	51.90	50.85	30
31	49.88		50.94	63.77	63.52	63.52		63.42		51.30	51.96		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED NR - NO RECORD NF - NO FLOW	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
		11-2-68	2100	50.09	4-8-69	1315	63.99					
	2-8-69	1745	64.76	6-11-69	0815	64.58						
	2-26-69	2100	65.90	9-9-69	1300	53.19						

T - DETERMINED FROM
TELEMARK READINGS

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33300a	65.90	2-26-69	APR 12-DATE		1912	1959	47.24 47.31 0.00	USCGS USCGS USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	38.69	39.84	39.19	40.64	55.44	58.02	55.25	52.04	55.37	49.77	42.34	42.88	1
2	38.73	39.91	39.17	40.43	55.41	57.85	55.12	51.68	55.38	49.45	42.37	42.75	2
3	38.84	39.96	39.15	40.26	55.28	57.77	55.08	51.65	55.41	49.23	42.33	42.74	3
4	38.73	39.67	39.20	39.99	55.21	57.58	55.05	52.60	55.42	49.07	42.55	42.86	4
5	38.90	39.59	39.25	39.78	55.24	57.58	55.07	53.60	55.43	48.87	42.34	43.08	5
6	38.80	39.65	39.23	39.58	55.41	57.38	55.15	53.88	55.57	48.63	42.28	43.06	6
7	38.64	39.63	39.13	39.45	55.70	57.17	55.30	53.87	55.83	48.42	42.21	43.13	7
8	38.52	39.44	39.08	39.40	56.41	57.11	55.86	53.61	56.17	48.12	42.19	43.64	8
9	38.42	39.29	39.03	39.35	56.88	57.08	55.98	52.96	56.51	47.25	42.17	43.82	9
10	38.43	39.17	39.02	39.36	56.96	57.07	55.77	52.58	56.71	46.26	42.12	43.86	10
11	38.32	39.14	39.08	39.33	56.86	57.07	55.54	53.25	56.79	45.56	42.16	43.76	11
12	38.39	39.10	39.10	39.38	56.88	57.06	55.43	53.98	56.74	45.11	42.00	43.53	12
13	38.79	39.19	39.10	39.68	56.76	56.94	55.30	54.26	56.54	44.50	41.81	43.50	13
14	39.32	39.28	39.19	40.20	56.68	56.80	55.03	54.33	56.29	44.08	41.62	43.49	14
15	39.49	39.45	39.29	42.34	56.75	56.72	54.68	54.45	55.99	43.72	41.44	43.15	15
16	39.54	39.56	39.47	44.58	56.76	56.60	54.51	54.59	55.67	43.58	41.57	43.03	16
17	39.61	39.72	39.59	45.57	56.82	56.51	54.43	54.71	55.36	43.55	41.99	43.10	17
18	39.77	39.77	39.58	45.76	57.03	56.46	54.32	54.75	55.20	43.40	42.30	42.66	18
19	39.36	39.72	39.55	45.67	57.20	56.41	54.28	54.76	55.10	43.14	42.23	42.65	19
20	39.12	39.64	39.47	46.62	57.36	56.40	54.17	54.79	54.97	42.96	42.30	42.57	20
21	39.13	39.60	39.36	47.97	57.49	56.37	53.93	54.86	54.71	42.98	42.32	42.59	21
22	39.28	39.54	39.33	50.32	57.42	56.40	53.64	54.97	54.43	43.06	42.33	42.71	22
23	39.49	39.47	39.29	52.90	57.37	56.57	53.37	55.04	54.22	43.06	42.40	42.69	23
24	39.49	39.47	39.28	54.26	57.48	56.61	53.17	55.05	53.79	42.82	42.51	42.61	24
25	39.56	39.51	39.34	54.96	57.95	56.51	53.06	55.08	53.46	42.66	42.63	42.25	25
26	39.62	39.50	39.44	55.07	58.70	56.45	52.90	55.10	53.27	42.56	42.50	41.92	26
27	39.62	39.53	39.74	55.72	58.72	56.40	52.62	55.10	52.72	42.58	42.49	41.82	27
28	39.70	39.45	40.90	56.42	58.45	56.30	52.79	55.18	51.87	42.69	42.59	41.81	28
29	39.74	39.36	41.27	55.95		56.10	52.69	55.27	50.92	42.50	42.61	41.76	29
30	39.68	39.27	41.13	55.70		55.87	52.34	55.32	50.21	42.47	42.69	41.80	30
31	39.75		40.87	55.47		55.53		55.35		42.37	42.75		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11-3-68	0630	40.03	1-28-69	1430	56.50	5-6-69	1900	53.90			
12-29-68	1330	41.29	2-26-69	0850	58.81	6-11-69	1730	56.81			
1-19-69	2200	46.55	4-8-69	2300	56.04						

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE					
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	1959	0.00	USED
									1959		0.00	USGS
									1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs and diversions.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1969	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	66.89	69.48	69.37	72.40	75.51	75.42	74.81	73.99	76.22	69.23	67.28	68.13	1
2	66.96	69.47	69.49	72.02	73.35	75.37	74.50	73.04	76.24	68.29	67.28	68.17	2
3	66.98	69.46	69.39	70.77	75.51	75.22	73.79	72.55	76.23	67.44	67.27	68.20	3
4	66.99	69.49	69.41	70.27	75.43	74.09	72.97	72.38	76.18	68.26	67.32	68.33	4
5	66.98	69.48	70.25	69.98	75.32	73.07	73.44	71.61	76.19	70.11	67.15	67.81	5
6	66.97	69.52	70.63E	70.92	75.33	72.80	74.56	71.25	76.27	69.93	67.12	67.20	6
7	66.98	69.44	70.56E	70.44	74.04	72.79	74.87	72.09	76.31	69.42	67.11	67.18	7
8	66.98	69.44	70.46E	70.21	75.29	72.79	75.17	72.70	76.30	69.19	67.11	67.17	8
9	66.99	69.44	70.37E	70.22	75.26	72.79	74.71	72.88	76.31	70.49	67.11	67.17	9
10	66.99	68.24	70.27E	70.14	75.21	72.79	73.67	72.81	76.36	72.11	67.11	67.23	10
11	67.00	67.40	70.17E	70.00	75.19	72.79	73.67	72.80	76.35	71.50	67.11	67.31	11
12	66.99	67.29	70.32E	69.35	75.17	72.79	73.68	72.80	76.33	71.13	67.11	67.23	12
13	67.01	67.19	70.65E	70.40	75.13	72.79	73.68	73.00	76.31	71.13	67.11	67.23	13
14	67.20	67.12	70.21E	70.60	75.08	72.79	73.67	73.52	76.25	70.53	67.11	67.23	14
15	67.51	67.15	69.88E	71.17	75.06	72.80	73.24	74.75	75.05	72.67	67.13	67.23	15
16	67.50	67.09	70.51E	71.14	75.05	72.80	72.55	75.50	74.13	72.73	67.13	67.31	16
17	67.45	67.07	70.81	71.12	74.47	72.40	72.71	75.78	74.70	70.18	67.13	68.16	17
18	67.40	67.08	70.77	71.20	74.01	72.15	72.75	75.80	74.99	69.19	67.14	68.26	18
19	67.39	67.09	70.80	73.21	74.66	72.15	73.02	75.82	73.56	69.47	67.14	68.36	19
20	67.29	67.09	71.16	75.38	74.63	72.18	73.27	75.85	72.88	70.42	67.37	68.38	20
21	67.42	67.08	71.25	75.96	73.90	73.18	73.14	75.86	72.80	70.52	67.19	68.39	21
22	67.72	67.08	71.22	75.90	73.25	73.41	72.96	75.86	72.78	68.77	67.14	68.40	22
23	68.90	67.08	71.36	75.83	73.27	73.38	72.67	75.88	73.58	68.51	67.13	68.41	23
24	69.51	67.07	71.04	75.85	74.12	73.84	73.07	75.92	74.77	68.46	67.09	68.43	24
25	69.43	67.06	70.69	75.98	75.24	74.23	73.33	75.94	75.19	68.72	67.10	68.81	25
26	69.48	67.42	71.68	81.53	75.49	73.54	73.30	75.96	74.15	69.10	67.10	70.41	26
27	69.48	68.80	72.50	77.54	75.46	73.00	73.32	76.10	72.03	68.80	67.64	71.44	27
28	69.45	69.40	72.49	76.21	75.44	73.00	73.07	76.18	70.18	67.69	67.93	71.44	28
29	69.50	69.38	72.47	75.61		73.15	73.20	76.18	70.17	67.31	67.98	71.28	29
30	69.48	69.38	72.45	75.35		74.06	73.74	76.19	69.64	67.31	68.03	70.86	30
31	69.48		72.43	75.11		74.84		76.20		67.30	68.08		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-21-69	0715	76.89	2-26-69	1200	75.56						
1-26-69	1100	86.29	3-31-69	1315	75.11						
2-3-69	1500	75.63	6-9-69	1630	76.40						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E	52200	88.0	12-8-50	OCT 36-SEP 60		1937		1.76	USGS
				86.29	1-26-69	OCT 61-DATE					

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles. To change gage height to elevation add 100 feet.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.49	70.28	70.12	73.02	76.56	76.17	75.42	74.36	76.81	68.62E	67.57	70.34	1
2	68.49	70.28	70.11	72.89	75.46	76.11	75.00	73.93	76.81	68.09E	67.55	70.34	2
3	68.50	70.33	70.24	71.53	75.53	75.96	74.74	72.76	76.81	68.07E	67.50	70.42	3
4	68.52	70.23	70.16	71.25	76.45	75.16	73.37	72.83	76.77	68.23E	67.49	70.51	4
5	68.54	70.27	70.31	70.81	76.41	73.74	73.50	72.06	76.72	69.92E	67.55	70.54	5
6	68.55	70.25	71.28	71.06	76.41	73.19	75.03	71.46	76.80	70.18	67.48	70.22	6
7	68.58	70.30	71.28	71.41	75.28	73.17	75.12	71.98	76.85	70.03	67.34	70.21	7
8	68.57	70.22	71.06	71.00	76.07	73.16	75.62	72.72	76.85	69.33E	67.34	70.04	8
9	68.58	70.22	70.93	70.86	76.31	73.17	75.54	73.26	76.82	69.44E	67.33	69.94	9
10	68.58	70.11	70.61	70.85	76.25	73.17	74.17	73.10	76.90	71.90	67.34	69.94	10
11	68.56	69.02	70.78	70.64	76.22	73.16	74.04	73.10	76.90	71.86	67.32	69.92	11
12	68.64	68.80	70.67	70.56	76.18	73.16	74.02	73.09	76.88	71.31	67.32	69.94	12
13	68.64	68.72	70.90	70.34	76.12	73.15	74.01	73.19	76.86	71.31	67.35	69.95	13
14	68.66	68.67	70.94	71.55	76.08	73.15	73.93	73.55	76.82	71.09	67.35	69.95	14
15	68.85	68.69	70.24	71.82	76.06	73.15	73.80	74.90	76.28	71.61	67.35	69.93	15
16	68.79	68.66	70.17	71.74	76.05	73.13	72.72	75.77	74.55	73.06	67.35	69.93	16
17	68.80	68.63	71.40	71.71	75.83	72.93	72.73	76.35	74.75	71.57	67.36	69.95	17
18	68.78	68.61	71.43	71.72	74.72	72.40	72.80	76.38	75.55	69.39	69.92	70.37	18
19	68.79	68.58	71.38	72.68	75.54	72.38	72.94	76.41	74.44	69.28	69.92	70.48	19
20	68.75	68.57	71.58	76.16	75.60	72.38	73.41	76.44	73.02	70.19	69.92	70.58	20
21	68.74	68.57	71.97	77.00	75.21	73.13	73.39	76.45	72.91	70.45	69.98	70.61	21
22	68.71	68.56	71.85	76.98	73.98	73.80	73.24	76.46	72.85	69.70	69.98	70.61	22
23	68.85	68.56	71.80	76.84	74.01	73.77	72.84	76.48	73.31	68.65	69.94	70.62	23
24	70.14	68.56	71.93	76.83	74.46	73.93	72.98	76.49	74.69	68.59	69.92	70.64	24
25	70.24	68.55	71.43	77.14	76.24	74.80	73.50	76.53	75.57	68.50	69.92	70.72	25
26	70.26	68.55	71.69	81.23	76.30	74.23	73.49	76.55	75.07	69.07	69.92	71.29	26
27	70.25	68.59	73.09	81.42	76.21	73.38	73.74	76.62	73.21	69.25	69.90	72.42	27
28	70.24	69.99	73.12	77.98	76.18	73.36	73.34	76.76	70.41	68.45	70.14	72.45	28
29	70.27	70.11	73.10	77.25		73.37	73.33	76.77	70.23	67.77	70.23	72.47	29
30	70.31	70.12	73.07	76.67		74.10	73.85	76.78	70.04	67.62	70.25	72.19	30
31	70.29		73.05	76.29		75.10		76.80		67.58	70.32		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	1-26-69	2000	87.10	4-1-69	1345	75.53	6-10-69	0400	76.91			
NR - NO RECORD	2-26-69	0830	76.41	4-8-69	0100	75.62						
NF - NO FLOW	3-25-69	1600	74.87	5-1-69	1200	74.37						

LOCATIONIDN			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.57	67.76	67.73	68.65	70.00	73.87	68.15	68.69	68.93	69.06	68.34	69.85	1
2	68.48	67.78	67.72	68.48	69.65	72.89	68.33	68.59	68.93	69.17	68.41	69.60	2
3	68.57	68.21	67.72	68.38	69.45	70.63	68.37	68.52	68.96	68.41	68.21	69.49	3
4	68.59	69.64	67.72	68.32	69.23	70.18	68.37	68.42	68.87	68.26	68.22	69.48	4
5	68.61	68.78	67.74	68.28	69.09	69.63	68.52	68.44	68.88	68.14	68.27	69.24	5
6	68.69	68.32	67.74	68.25	69.40	69.31	71.84	68.41	68.96	68.16	68.30	68.35	6
7	68.81	68.07	67.72	68.22	72.44	69.07	71.49	68.38	69.03	68.16	68.18	68.43	7
8	68.78	67.92	67.72	68.18	70.23	68.87	69.55	68.64	69.03	68.30	68.20	68.46	8
9	68.66	67.87	67.72	68.17	69.43	68.73	68.78	69.08	69.02	68.26	68.22	68.57	9
10	68.60	67.84	67.72	68.18	69.13	68.61	68.45	69.29	68.75	68.20	68.32	68.49	10
11	68.65	67.82	67.72	68.18	69.03	68.96	68.34	69.30	68.57	69.16	68.42	68.36	11
12	68.78	67.82	67.72	68.16	69.44	68.73	68.32	69.21	68.63	69.27	68.38	68.28	12
13	68.83	67.81	67.72	68.17	70.94	68.57	68.36	69.14	69.15	69.34	68.19	68.33	13
14	69.29	67.81	67.80	77.68	69.60	68.86	68.37	69.18	69.16	69.29	68.21	68.32	14
15	69.12	68.18	68.08	78.19	69.49	68.66	68.29	69.03	69.28	68.99	68.11	68.42	15
16	68.60	68.76	68.43	71.31	74.54	68.43	68.33	68.98	69.26	68.75	68.21	69.22	16
17	68.33	68.28	68.92	69.90	73.43	68.31	68.36	68.91	69.18	68.98	68.37	69.24	17
18	68.20	68.14	68.85	69.40	71.17	68.25	68.44	69.29	69.21	69.03	68.41	69.15	18
19	68.11	68.08	68.31	72.73	78.33	68.18	68.37	69.22	69.08	68.36	68.30	69.20	19
20	68.07	67.99	68.10	82.40	75.15	68.15	68.36	69.08	68.97	68.32	68.22	69.35	20
21	68.02	67.92	67.98	80.26	71.47	68.11	68.38	69.02	69.06	68.34	68.37	69.47	21
22	67.90	67.87	67.92	84.36	70.48	69.55	68.45	69.03	68.98	68.42	68.29	69.56	22
23	67.85	67.80	67.88	74.69	70.32	68.77	68.38	68.95	69.04	68.41	68.17	69.61	23
24	67.82	67.77	67.88	71.42	76.34	68.36	68.51	68.90	68.80	68.21	68.20	69.68	24
25	67.79	67.75	68.11	76.45	80.73	68.18	68.54	68.87	68.86	68.35	68.13	69.30	25
26	67.74	67.75	71.26	85.08	76.88	68.08	68.43	68.86	68.80	68.60	68.17	68.38	26
27	67.79	67.74	75.59	80.60	74.38	68.06	68.57	68.97	68.80	68.81	68.35	68.37	27
28	67.79	67.74	70.64	73.12	71.07	68.01	68.67	69.28	68.84	68.92	68.46	68.48	28
29	67.80	67.73	69.59	73.28		67.96	68.77	69.10	68.83	68.29	69.13	68.52	29
30	67.79	67.73	69.47	71.41		67.92	68.77	68.97	68.98	68.27	69.15	68.46	30
31	67.78		68.94	70.43		67.90		69.14		68.28	69.36		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-14-69	2215	83.97	1-26-69	2315	85.76	2-25-69	1000	83.02	4- 6-69	1715	74.44
1-20-69	0745	85.08	2-16-69	1130	76.02	2-26-69	2030	79.05			
1-22-69	0200	87.18	2-19-69	0215	80.63	3- 1-69	1400	75.53			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. AM	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCCS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. Station is operated under a cooperative agreement between the Department of Water Resources and the Modesto Irrigation District. Drainage area is 192.3 square miles.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.21	41.86E	41.83	44.68	51.98	52.89	49.98	47.64	53.32	42.27	41.40	41.63	1
2	41.20	41.92E	41.84	44.60	52.27	52.88	49.70	47.94	53.40	42.17	41.38	41.63	2
3	41.21	41.94E	41.87	43.68	49.47	52.12	49.58	45.92	53.43	41.85	41.36	41.61	3
4	41.21	41.95E	41.87	42.73	51.96	51.17	47.56	45.39	53.45	41.62	41.38	41.65	4
5	41.20	41.91E	41.87	42.40	52.10	48.64	46.63	44.81	53.32	41.71	41.35	41.69	5
6	41.22	41.89E	42.19	42.24	52.12	46.88	48.84	43.73	53.31	42.24	41.36	41.56	6
7	41.23	41.88E	42.43	42.71	52.40	46.30	50.43	43.40	53.49	42.22	41.33	41.58	7
8	41.25	41.87E	42.34	42.44	50.36	46.15	50.80	44.56	53.59	42.02	41.32	41.60	8
9	41.24	41.86E	42.29	42.32	51.81	46.08	51.07	45.64	53.61	41.94	41.33	41.41	9
10	41.23	41.84E	42.24	42.30	51.91	46.06	49.74	45.86	53.57	42.90	41.35	41.39	10
11	41.25	41.48E	42.21	42.27	51.90	46.03	48.18	45.81	53.53	44.34	41.33	41.39	11
12	41.26	41.34	42.15	42.22	51.89	46.07	47.89	45.80	53.51	43.54	41.31	41.35	12
13	41.31	41.29	42.20	42.00	52.00	46.05	47.84	45.82	53.54	43.22	41.29	41.37	13
14	41.49	41.26	42.41	44.24	51.75	46.07	47.77	46.30	53.56	43.20	41.31	41.38	14
15	41.51	41.28	42.10	46.49	51.65	46.04	47.61	47.50	53.42	42.70	41.28	41.36	15
16	41.40	41.32	41.99	43.58	52.34	45.98	46.41	49.79	50.85	45.87	41.30	41.44	16
17	41.33	41.26	42.33	43.03	52.05	45.91	45.53	51.30	49.23	45.30	41.33	41.47	17
18	41.25	41.23	42.62	42.94	50.59	45.11	45.77	51.99	50.36	42.59	41.32	41.45	18
19	41.24	41.21	42.60	43.59	52.08	44.78	45.71	52.19	50.44	42.03	41.32	41.62	19
20	41.22	41.19	42.62	51.50	52.04	44.75	46.33	52.27	47.60	42.15	41.29	41.69	20
21	41.20	41.18	42.84	53.60	51.04	45.09	46.58	52.35	46.55	42.45	41.28	41.72	21
22	41.18	41.17	42.83	56.94	48.88	46.79	46.30	52.42	46.27	42.45	41.32	41.70	22
23	41.17	41.17	42.80	54.56	47.81	47.06	45.91	52.48	46.26	41.92	41.31	41.71	23
24	41.36	41.16	42.94	53.09	49.12	46.99	45.54	52.52	47.99	41.75	41.30	41.72	24
25	41.76	41.15	42.74	53.79	53.28	48.22	46.40	52.60	50.19	41.71	41.33	41.74	25
26	41.80E	41.15	42.76	57.45	53.80	48.43	46.66	52.67	50.83	41.78	41.29	41.71	26
27	41.82E	41.15	45.52	63.65	53.60	47.19	46.80	52.72	48.60	41.92	41.30	42.33	27
28	41.83E	41.35	45.25	58.07	52.66	46.48	46.52	53.01	44.88	41.97	41.35	42.84	28
29	41.84E	41.80	44.93	55.30		46.56	46.24	53.18	42.86	41.56	41.47	42.93	29
30	41.86E	41.85	44.87	53.61		46.89	46.61	53.21	42.62	41.44	41.49	42.82	30
31	41.86E		44.77	52.61		48.61		53.28		41.38	41.55		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	12-27-68	1415	46.10	2-25-69	1615	54.31	6- 9-69	0545	53.65			
NR - NO RECORD	1-22-69	0845	57.46	4- 9-69	0215	51.10	6-26-69	1515	50.91			
NF - NO FLOW	1-27-69	0645	65.42	5- 2-69	0400	48.01						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 38 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-12 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1969	804105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.32	25.22	24.98	30.12	38.87	40.31	37.66	35.80	39.16	31.40	25.57	25.32	1
2	23.34	25.24	25.05	30.04	38.84	40.16	37.66	36.02	39.18	30.59	25.52	25.36	2
3	23.32	25.53	25.16	29.64	38.21	39.93	37.55	35.29	39.19	29.88	25.44	25.33	3
4	23.34	25.60	25.25	28.10	38.35	39.63	37.18	34.53	39.19	29.08	25.32	25.37	4
5	23.37	25.60	25.20	27.37	38.56	39.08	36.79	34.58	39.18	28.75	25.29	25.48	5
6	23.39	25.46	25.57	26.80	38.61	38.61	37.09	34.60	39.17	29.47	25.28	25.39	6
7	23.39	25.37	26.71	27.36	38.70	38.25	37.73	34.58	39.23	29.65	25.23	25.27	7
8	23.46	25.35	26.77	27.41	38.34	38.03	37.86	34.96	39.32	29.11	25.19	25.43	8
9	23.46	25.28	26.60	26.94	38.74	37.93	38.15	35.33	39.41	28.74	25.22	25.06	9
10	23.43	25.25	26.49	26.78	39.01	37.88	38.02	35.36	39.45	29.12	25.23	24.90	10
11	23.46	25.10	26.27	26.73	39.06	37.84	37.47	35.22	39.50	30.77	25.13	24.91	11
12	23.62	24.25	26.25	26.55	39.07	37.86	37.23	35.40	39.51	30.50	25.11	24.88	12
13	23.52	23.83	26.23	26.21	39.07	37.84	37.15	35.75	39.42	29.90	25.02	24.83	13
14	23.78	23.67	26.74	27.26	38.98	37.73	37.07	36.09	39.32	29.78	25.03	24.85	14
15	24.10	23.74	26.46	31.67	38.94	37.63	36.94	36.49	39.19	29.24	25.03	24.78	15
16	23.88	23.68	25.84	29.87	39.03	37.55	36.60	37.36	38.53	31.07	24.95	24.82	16
17	23.66	23.62	26.24	28.89	39.08	37.46	36.21	38.07	37.63	30.76	25.00	24.94	17
18	23.55	23.49	27.29	28.83	38.82	37.31	36.16	38.50	37.65	29.44	24.97	24.88	18
19	23.46	23.45	27.39	29.10	39.02	37.35	36.10	38.67	37.82	27.73	24.97	25.19	19
20	23.38	23.40	27.36	33.92	39.25	37.09	36.16	38.72	37.09	27.56	24.92	25.43	20
21	23.33	23.37	27.67	37.72	39.19	37.10	36.25	38.76	36.51	28.22	24.89	25.58	21
22	23.30	23.35	28.03	39.68	38.90	37.33	36.13	38.79	36.28	28.34	24.89	25.53	22
23	23.26	23.34	27.96	40.11	38.51	37.54	35.93	38.82	36.14	27.42	24.87	25.52	23
24	23.23	23.32	28.09	39.38	38.60	37.60	35.62	38.84	36.40	26.73	24.86	25.57	24
25	24.30	23.32	28.05	39.60	39.36	37.72	35.68	38.88	37.10	26.55	24.83	25.57	25
26	24.86	23.31	27.64	40.79	40.08	37.85	35.83	38.90	37.48	26.49	24.77	25.47	26
27	24.98E	23.29	29.76	42.38	40.31	37.62	35.79	38.92	36.90	26.78	24.76	26.39	27
28	25.09	23.34	30.80	41.33	40.43	37.36	35.79	39.00	35.41	26.98	24.84	28.23	28
29	25.12	24.42	30.37	40.31		37.26	35.54	39.08	33.49	26.27	24.95	28.56	29
30	25.19	24.89	30.29	39.72		37.18	35.51	39.11	32.37	25.81	25.02	28.55	30
31	25.23		30.22	39.24		37.39		39.13		25.63	25.17E		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	
E - ESTIMATED	11-	5-68	0100	25.75	1-15-69	1200	32.10	2-28-69	0400	40.46	6-26-69	1800	37.52
	12-	7-68	2400	27.00	1-22-69	2230	40.49	3-26-69	0500	37.90	7-11-69	2345	30.98
NR - NO RECORD	12-	14-68	2245	27.22	1-27-69	0845	42.86	5- 2-69	0900	36.05	7-17-69	0045	32.13
NF - NO FLOW	12-	27-68	2350	31.06	2-20-69	1545	39.29	6-12-69	0245	39.54			

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B. & M.		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
				CFS	GAGE HT.	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959		0.00	USED
				37900b	43.15a	12- 9-50			1960		0.00	USCS
					42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.
a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-12(Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.88	16.26	15.93	19.81	34.00	36.89	31.83	28.42	33.32	25.64	17.65	18.00	1
2	14.83	16.33	15.93	19.67	33.72	36.62	31.73	28.43	33.35	24.88	17.64	18.04	2
3	14.88	16.55	15.95	19.49	33.31	36.25	31.53	28.26	33.37	24.30	17.63	18.00	3
4	14.99	16.59	16.01	18.62	32.81	35.85	31.35	27.83	33.38	23.62	17.59	18.00	4
5	15.07	16.51	16.01	17.97	32.77	35.37	31.05	27.75	33.38	23.35	17.52	18.20	5
6	15.18	16.39	16.08	17.47	32.73	34.77	31.05	28.07	33.38	23.51	17.35	18.28	6
7	15.17	16.37	16.64	17.38	32.70	34.19	31.51	28.25	33.42	23.50	17.32	18.39	7
8	15.10	16.32	16.86	17.64	32.71	33.78	31.89	28.45	33.53	23.15	17.29	18.76	8
9	15.01	16.20	16.76	17.39	33.02	33.50	32.38	28.69	33.67	22.75	17.29	18.75	9
10	14.91	16.10	16.68	17.29	33.58	33.36	32.60	28.69	33.86	22.23	17.36	18.71	10
11	14.88	16.02	16.55	17.37	33.85	33.30	32.32	28.57	33.99	22.47	17.36	18.74	11
12	14.90	15.66	16.57	17.37	33.93	33.26	31.94	28.83	34.00	22.37	17.12	18.69	12
13	15.25	15.32	16.50	17.34	34.03	33.21	31.69	29.49	33.79	21.81	17.04	18.48	13
14	15.75	15.25	16.21	17.59	34.14	33.01	31.46	30.02	33.47	21.46	17.02	18.48	14
15	16.26	15.38	16.91	20.81	34.11	32.78	31.15	30.48	33.15	21.02	16.88	18.41	15
16	16.20	15.39	16.52	21.97	34.12	32.66	30.75	31.10	32.70	21.26	16.78	18.27	16
17	15.96	15.43	16.45	21.84	34.18	32.57	30.28	31.71	31.94	22.11	16.98	18.34	17
18	15.68	15.43	17.17	22.03	34.17	32.42	30.01	32.18	31.65	21.29	17.25	18.28	18
19	15.51	15.43	17.44	22.20	34.20	32.21	29.85	32.47	31.65	19.87	17.42	18.17	19
20	15.24	15.38	17.40	23.72	34.58	32.09	29.75	32.58	31.41	19.35	17.37	18.37	20
21	15.04	15.33	17.45	26.97	34.78	32.00	29.77	32.64	30.90	19.57	17.42	18.41	21
22	14.99	15.29	17.68	30.66	34.74	32.03	29.68	32.71	30.54	19.65	17.45	18.45	22
23	15.06	15.25	17.68	33.16	34.45	32.21	29.42	32.79	30.22	19.33	17.44	18.45	23
24	15.12	15.20	17.70	32.50	34.28	32.40	29.14	32.90	29.98	18.72	17.55	18.36	24
25	15.37	15.18	17.82	32.46	34.72	32.47	28.90	32.97	29.96	18.46	17.78	18.31	25
26	15.83	15.20	17.62	33.51	35.79	32.52	28.88	33.03	30.04	18.28	17.62	18.27	26
27	15.97	15.19	18.29	36.62	36.48	32.42	28.86	33.04	29.85	18.51	17.54	18.35	27
28	16.07	15.20	19.75	36.44	36.78	32.20	28.82	33.06	29.06	18.57	17.57	19.30	28
29	16.14	15.53	19.99	35.70		32.02	28.66	33.12	27.82	18.38	17.67	19.70	29
30	16.20	15.86	20.03	35.13		31.92	28.50	33.21	26.60	17.94	17.83	19.84	30
31	16.21		19.95	34.48		31.84		33.27		17.79	17.89		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-15-68	1715	16.33	12-29-68	2245	20.04	2-28-69	2400	37.00	7-17-69	0745	22.19
11-3-68	2030	16.65	1-23-69	0800	33.43	4-10-69	0830	32.63			
12-15-68	0600	17.09	1-27-69	2015	38.31	6-12-69	0600	34.03			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E		37.00a	2-28-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943 1959 1959	1959	0.00 0.00 3.41	USED USCGS USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions.

a This maximum gage height does not represent the maximum discharge as the station was affected by backwater from the Stanislaus River.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.28	1.82	2.05	2.79	12.00	9.77	7.27	6.51	12.98	4.23	1.62	1.52	1
2	1.28	1.83	2.01	3.26	9.68	9.48	7.03	6.57	12.98	3.57	1.60	1.50	2
3	1.32	2.02	2.27	3.30	9.50	9.31	6.85	6.62	12.87	2.60	1.57	1.55	3
4	1.34	2.02	2.09	3.28	8.90	8.70	6.84	6.63	12.96	4.49	1.54	1.62	4
5	1.36	1.88	2.00	3.27	7.92	8.73	7.37	6.66	12.77	4.67	1.54	1.56	5
6	1.38	1.96	2.04	3.27	8.13	8.65	8.36	6.66	12.41	3.38	1.55	1.66	6
7	1.38	2.05	1.98	3.58	7.67	8.52	8.24	6.68	11.98	4.10	1.58	1.68	7
8	1.36	1.99	2.05	4.63	8.06	8.38	8.24	6.72	11.16	3.49	1.62	1.63	8
9	1.38	2.04	2.03	4.68	8.12	8.20	8.26	6.91	10.77	2.68	1.60	1.50	9
10	1.41	2.01	1.99	5.88	8.28	8.26	8.38	7.40	9.64	2.66	1.59	1.42	10
11	1.39	2.02	2.08	5.43	9.27	7.92	8.41	11.56	7.58	2.78	1.58	1.42	11
12	1.48	2.05	2.05	5.88	10.30	7.49	7.66	11.96	6.12	3.48	1.65	1.43	12
13	1.48	2.02	1.98	6.97	9.80	6.88	7.52	12.40	4.90	3.50	1.61	1.39	13
14	1.50	2.02	2.16	9.02	9.63	6.69	7.30	12.66	3.85	3.46	1.60	1.38	14
15	1.52	2.26	2.15	7.65	9.87	8.01	7.07	12.93	3.79	4.69	1.58	1.37	15
16	1.46	2.12	2.41	7.34	9.57	7.93	6.97	13.01	5.71	3.24	1.57	1.41	16
17	1.40	2.00	2.11	7.20	9.35	7.86	6.96	13.02	8.62	1.93	1.55	1.43	17
18	1.49	2.08	2.11	6.80	10.06	7.76	6.85	13.03	7.92	1.83	1.56	1.39	18
19	1.85	2.08	2.00	9.67	9.71	7.66	6.70	13.02	7.68	1.73	1.58	1.43	19
20	1.85	2.08	2.06	12.85	9.53	7.57	6.69	12.95	7.68	1.64	1.64	1.34	20
21	1.87	2.03	2.06	20.70	9.11	7.57	6.63	12.82	7.37	1.58	1.58	1.32	21
22	1.87	1.96	2.06	18.33	8.68	7.43	6.59	13.01	7.02	1.61	1.55	1.35	22
23	1.82	2.02	2.06	13.03	9.28	7.37	6.55	13.03	6.72	1.56	1.54	1.44	23
24	1.81	2.05	2.10	11.92	10.41	6.95	6.60	12.94	6.23	1.57	1.57	3.94	24
25	1.84	2.06	2.52	14.51	10.24	6.41	6.62	12.88	5.25	1.59	1.58	4.53	25
26	1.83	2.06	2.92	18.28	10.11	6.79	6.65	12.94	3.91	1.58	1.57	4.74	26
27	1.83	2.00	2.21	16.14	9.71	6.79	6.68	12.88	2.24	1.57	1.55	4.86	27
28	1.83	2.04	2.12	13.26	9.71	7.56	6.62	12.95	1.98	1.55	1.59	4.85	28
29	1.81	2.04	2.14	12.84		8.28	6.51	13.10	1.94	1.57	1.60	4.77	29
30	1.90	2.05	2.07	12.79		8.15	6.50	13.05	1.95	1.56	1.61	3.78	30
31	1.88		2.03	12.78		7.72		12.94		1.58	1.56		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-10-69	1130	6.17	2-12-69	0815	10.48	4-10-69	1600	6.51	7-5-69	0345	5.82
1-14-69	0600	9.69	2-24-69	1550	11.73	5-11-69	1300	12.96	7-15-69	0800	5.20
1-21-69	1400	23.11	3-14-69	2115	8.18	6-17-69	0100	8.85			
1-26-69	1245	19.85	3-28-69	1700	8.41	7-1-69	1030	5.02			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39				117.21	USCGS
						APR 40-DATE					

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	36.67	36.79	36.96	37.19	55.93	53.28	49.74	46.73	55.84	40.28	37.45	37.51	1
2	37.04	36.80	36.97	37.53	55.27	53.35	48.85	46.82	55.82	42.12	37.66	37.41	2
3	37.10	36.91	36.95	38.52	53.90	53.02	48.26	47.05	55.77	41.28	37.96	37.50	3
4	36.91	37.59	37.00	38.82	53.42	52.68	47.93	47.19	55.71	40.10	37.81	37.45	4
5	36.96	37.50	37.13	38.88	52.41	51.87	48.00	47.24	55.71	42.74	37.78	37.54	5
6	37.05	37.19	37.03	38.91	51.01	51.62	49.69	47.13	55.57	42.45	37.72	37.63	6
7	37.17	37.01	36.99	38.93	50.88	51.42	50.72	47.18	55.26	41.26	37.58	37.86	7
8	36.82	36.99	36.96	39.48	50.25	51.17	50.60	47.09	54.90	41.47	37.47	38.27	8
9	36.91	37.00	36.93	41.02	50.45	50.89	50.54	47.20	54.34	40.59	37.24	38.19	9
10	36.81	36.97	36.95	41.56	50.52	50.64	50.57	47.51	53.94	39.94	37.30	37.84	10
11	36.61	36.99	36.95	43.09	50.87	50.55	50.77	48.83	52.95	39.72	37.58	37.72	11
12	36.63	37.00	36.95	42.96	52.35	49.99	50.67	53.14	50.17	39.73	37.61	37.62	12
13	37.07	37.05	37.00	43.74	53.59	49.21	49.84	54.72	47.16	40.51	37.54	37.50	13
14	37.69	37.04	37.03	46.31	53.27	47.92	49.50	55.37	44.75	40.57	37.22	37.79	14
15	38.03	37.12	37.15	49.10	53.06	48.35	48.96	55.60	43.49	40.60	37.25	37.72	15
16	37.82	37.50	37.32	47.92	53.30	49.79	48.45	55.87	42.99	41.72	37.23	37.80	16
17	37.57	37.42	37.67	47.33	53.00	49.81	48.18	55.94	46.89	40.16	37.27	37.66	17
18	37.20	37.18	37.44	46.91	52.86	49.68	48.07	55.98	50.38	39.06	37.31	37.47	18
19	36.94	37.08	37.20	46.86	53.63	49.48	47.81	56.00	49.67	38.76	37.37	37.93	19
20	36.75	37.10	37.09	51.23	53.39	49.27	47.64	55.94	49.23	38.55	37.23	38.06	20
21	36.77	37.07	37.03	55.33	52.98	49.16	47.71	55.88	49.17	38.36	37.22	38.00	21
22	36.78	37.04	37.01	59.85	52.37	49.02	47.46	55.88	48.54	38.13	37.18	38.10	22
23	36.80	36.99	36.99	57.69	51.76	48.79	47.25	56.01	48.10	38.02	37.24	37.77	23
24	36.82	36.95	37.02	56.06	52.72	48.66	47.21	56.01	47.21	37.87	37.62	37.81	24
25	36.75	36.98	37.10	55.68	53.85	47.60	47.23	55.92	46.25	38.11	37.66	39.55	25
26	36.74	36.99	37.49	57.30	53.88	47.12	47.37	55.91	44.52	38.12	37.48	41.18	26
27	36.74	37.00	38.52	58.66	53.54	47.46	47.37	55.91	42.46	38.34	37.53	41.80	27
28	36.73	36.98	38.13	57.15	53.17	47.64	47.30	55.89	40.95	38.22	37.30	42.20	28
29	36.73	36.95	37.67	56.28		49.51	47.01	55.92	40.59	38.00	37.43	42.40	29
30	36.75	36.98	37.46	55.98		50.54	46.83	55.99	40.39	37.89	37.84	42.13	30
31	36.77		37.29	55.94		50.47		55.91		37.61	37.69		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-22-69	0945	60.43	5-23-69	1845	56.04						
2-25-69	1815	54.09	6-18-69	0915	50.58						
4-12-69	0500	50.93									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	27.73	27.56	27.67	27.90	45.54	43.34	40.04	37.05	45.62	31.64	29.20	29.30	1
2	27.94	27.58	27.67	27.97	45.22	43.45	39.28	37.12	45.60	33.11	29.33	29.17	2
3	28.17	27.69	27.65	28.86	44.02	43.22	38.67	37.28	45.62	32.75	29.67	29.23	3
4	28.00	28.07	27.66	29.27	43.44	42.92	38.35	37.46	45.53	31.60	29.43	29.31	4
5	28.08	28.27	27.80	29.40	42.82	42.27	38.42	37.52	45.54	33.39	29.22	29.28	5
6	28.10	28.02	27.77	29.45	41.29	41.85	39.52	37.40	45.47	33.94	29.38	29.32	6
7	28.21	27.82	27.68	29.49	41.00	41.63	40.72	37.48	45.25	32.68	29.30	29.67	7
8	28.01	27.75	27.67	29.72	40.41	41.37	40.75	37.38	45.00	32.81	29.30	30.14	8
9	27.97	27.76	27.63	31.13	40.53	41.08	40.72	37.52	44.58	32.16	29.06	30.13	9
10	27.82	27.73	27.65	31.69	40.63	40.81	40.77	37.70	44.27	31.46	29.12	29.94	10
11	27.77	27.72	27.67	33.16	40.89	40.71	40.90	38.70	43.67	31.19	29.33	29.67	11
12	27.76	27.73	27.65	33.26	41.93	40.31	40.95	41.93	41.66	31.09	29.38	29.44	12
13	28.09	27.77	27.68	33.80	43.28	39.63	40.27	44.28	38.71	31.78	29.37	29.34	13
14	28.72	27.77	27.75	35.46	43.35	38.58	39.89	45.50	36.56	32.04	28.98	29.62	14
15	29.04	27.82	27.80	38.54	43.09	38.49	39.40	45.76	35.36	31.73	29.13	29.67	15
16	28.96	28.07	27.93	37.81	43.17	39.88	38.85	45.90	34.90	33.06	29.13	29.72	16
17	28.52	28.16	28.22	37.26	43.11	39.99	38.48	45.90	37.38	31.82	29.20	29.54	17
18	28.18	27.96	28.18	36.96	42.82	39.87	38.34	45.86	40.87	30.65	29.26	29.38	18
19	27.90	27.82	27.93	36.68	43.36	39.70	38.09	45.86	40.53	30.32	29.16	29.70	19
20	27.68	27.81	27.82	39.76	43.44	39.50	37.85	45.77	40.02	30.09	28.99	29.92	20
21	27.63	27.79	27.73	43.20	43.09	39.37	38.01	45.70	39.92	30.08	29.01	29.82	21
22	27.63	27.77	27.70	48.16	42.64	39.27	37.86	45.66	39.42	29.73	28.96	29.93	22
23	27.64	27.73	27.68	46.77	42.00	39.07	37.62	45.74	38.87	29.72	28.83	29.45	23
24	27.68	27.68	27.70	45.72	42.41	38.96	37.57	45.75	38.12	29.52	29.34	29.36	24
25	27.60	27.68	27.77	45.24	43.47	38.28	37.51	45.70	37.24	29.71	29.46	30.71	25
26	27.57	27.69	27.99	46.20	43.88	37.61	37.60	45.67	35.89	29.78	29.13	32.59	26
27	27.52	27.71	28.78	47.42	43.69	37.94	37.62	45.65	34.25	30.03	29.42	33.04	27
28	27.52	27.69	28.89	46.49	43.34	38.01	37.62	45.64	32.72	30.05	29.10	33.57	28
29	27.56	27.66	28.45	45.81		39.28	37.34	45.64	32.27	29.70	29.04	33.78	29
30	27.58	27.68	28.19	45.60		40.46	37.17	45.72	31.88	29.58	29.56	33.67	30
31	27.58		28.02	45.54		40.54		45.68		29.36	29.50		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-15-68	2330	29.20	1-22-69	1200	48.78	5-17-69	0400	45.93	9-30-69	0930	33.85
12-27-68	2200	29.14	2-26-69	0130	43.95	6-18-69	1415	41.01			
1-15-69	1130	38.74	4-12-69	0800	41.07	7- 6-69	0200	34.81			

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
				CFS	GAGE HT	DATE			FROM	TO			
37 41 57	121 10 08	SW 2	3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS	
									1963		0.37	USC&GS	

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon.

TABLE B-12 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1969	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.55	11.88	11.65	15.48	30.70	32.91	28.41	24.78	29.94	21.75	14.21	14.40	1
2	10.48	11.98	11.64	15.34	30.39	32.72	28.33	24.78	29.95	21.04	14.27	14.39	2
3	10.58	12.18	11.65	15.29	29.99	32.42	28.12	24.70	29.96	20.58	14.34	14.35	3
4	10.67	12.32	11.72	14.70	29.44	32.05	27.94	24.32	29.98	19.87	14.32	14.37	4
5	10.81	12.31	11.73	14.09	29.29	31.67	27.67	24.24	29.98	19.68	14.16	14.48	5
6	10.95	12.19	11.81	13.58	29.20	31.15	27.60	24.50	29.96	19.99	14.03	14.59	6
7	10.93	12.12	12.26	13.45	29.12	30.63	28.00	24.67	29.98	19.88	13.98	14.71	7
8	10.81	12.05	12.55	13.74	29.14	30.22	28.37	24.77	30.03	19.59	13.96	15.07	8
9	10.69	11.94	12.47	13.69	29.29	29.94	28.74	24.95	30.10	19.23	13.96	15.13	9
10	10.66	11.86	12.39	13.75	29.74	29.77	29.01	25.04	30.20	18.63	13.99	15.05	10
11	10.67	11.78	12.29	14.04	30.07	29.68	28.89	24.96	30.32	18.67	14.06	15.02	11
12	10.55	11.52	12.29	14.21	30.17	29.64	28.56	25.25	30.29	18.69	13.86	14.96	12
13	10.93	11.14	12.22	14.24	30.29	29.60	28.28	26.06	30.06	18.29	13.79	14.81	13
14	11.53	11.04	12.38	14.55	30.39	29.44	28.05	26.69	29.72	18.02	13.68	14.83	14
15	12.10	11.17	12.68	17.35	30.37	29.23	27.77	27.21	29.36	17.63	13.58	14.82	15
16	12.15	11.21	12.35	18.72	30.35	29.13	27.40	27.83	29.01	17.70	13.49	14.68	16
17	11.85	11.31	12.26	18.61	30.39	29.07	26.94	28.40	28.42	18.46	13.67	14.68	17
18	11.53	11.32	12.85	18.68	30.39	28.95	26.58	28.84	28.13	17.88	13.93	14.67	18
19	11.30	11.26	13.17	18.79	30.39	28.78	26.39	29.13	28.14	16.51	13.99	14.53	19
20	11.04	11.21	13.12	19.99	30.68	28.65	26.27	29.30	27.98	15.89	13.98	14.79	20
21	10.78	11.15	13.14	23.10	30.83	28.56	26.27	29.34	27.56	15.94	13.96	14.86	21
22	10.66	11.11	13.36	27.58	30.92	28.57	26.18	29.38	27.19	15.97	13.96	14.89	22
23	10.73	11.06	13.38	30.29	30.66	28.67	25.90	29.44	26.81	15.77	13.92	14.83	23
24	10.83	11.00	13.40	29.47	30.50	28.80	25.56	29.54	26.51	15.20	14.07	14.72	24
25	10.96	10.95	13.53	29.15	30.80	28.90	25.28	29.62	26.39	14.97	14.32	14.75	25
26	11.42	10.96	13.42	30.11	31.67	28.92	25.21	29.66	26.42	14.82	14.17	15.08	26
27	11.58	10.97	13.84	32.83	32.40	28.87	25.22	29.66	26.20	14.98	14.07	15.20	27
28	11.68	10.97	15.31	32.52	32.62	28.71	25.18	29.68	25.38	15.06	14.09	15.93	28
29	11.76	11.17	15.63	32.16		28.56	25.07	29.74	24.07	14.96	14.12	16.46	29
30	11.81	11.56	15.67	31.76		28.51	24.88	29.83	22.73	14.62	14.30	16.63	30
31	11.83		15.61	31.15		28.44		29.90		14.41	14.37		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E — ESTIMATED	1-23-69	0400	30.60	2-17-69	2400	30.42	3-26-69	1800	28.94			
NR — NO RECORD	1-27-69	2200	34.55	2-22-69	1200	30.94	4-10-69	1800	29.05			
NF — NO FLOW	2-14-69	2400	30.41	3- 1-69	1400	32.96	6-11-69	2100	30.35			

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD		DATOM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM		
			CFS	GAGE HT.						FROM	TO
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23	1931	1959	8.4	USED	
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 26	1931	1959	5.06	USCGS	
						MAY 29-DATE	1959		0.00	USCGS	

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-13

CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published in Bulletin No. 130-66, Volume IV.

For other corrections and revisions to previously published reports dating back to 1924, refer to page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-13

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR		ITEM	CHANGE	
		NAME			FROM	TO
132		Bulletin No. 23-58 Surface Water Flow for <u>1958</u>		July acre-feet Water Year Total	247300 1292000	24730 1069000
B-19		Table 149 San Joaquin River at Whitehouse				
		Bulletin No. 130-63 Hydrologic Data <u>1963</u> Volume IV, San Joaquin Valley				
B-19		Table B-9 Miami Creek near Oakhurst		Maximum Discharge 1963 Water Year	1140E	804
				Maximum Discharge of record	1140E	804
B-29		Table B-19 Bear Creek near Cathay		Maximum Discharge flow 1963 Water gage ht. Year	3850E 9.98	4170E 10.07
				Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
B-98	8 (12.00- 13.75)	Table B-87 Tranquillity Irrigation District		Diversions	Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	204 52 2005 4112 383 2291 7200 7454 6659 1414 14324 31774
		Bulletin No. 130-64 Hydrologic Data <u>1964</u> Volume IV, San Joaquin Valley				
68		Table B-4 Miami Creek near Oakhurst		Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley		Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
		Bulletin No. 130-65 Hydrologic Data <u>1965</u> Volume IV, San Joaquin Valley				
61		Table B-5 Miami Creek near Oakhurst		Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley		Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing		Daily Mean Discharge	Jan. 8 9 10 11 12 13 14 15 16 17	B NR A NR C NR K NR W NR A NR T NR E NR R NR NR
115	112.55R	Table B-7 Diversions - San Joaquin River		L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company		Diversions Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data <u>1966</u> Volume IV, San Joaquin Valley				
76		Table B-4 Bear Creek near Catheys Valley		Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4 Burns Creek at Hornitos		Maximum Discharge 1966 Water Year	1330E	2020E

TABLE B-13 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January	18033	1833
			Average cubic feet per second	293	29.8
			Monthly use in percent of seasonal	3.5	0.4
			Total Diversion	516577	500377
			Average cubic feet per second	714	691
133		Table B-9 Exports from Tuolumne River	Total acre-feet		
			Oct.	15655	15696
			Nov.	12685	12721
			Dec.	14987	15023
			Jan.	7812	7851
			Feb.	11913	11946
			March	15566	12607
			April	11060	11106
			May	15208	15260
			June	18388	18438
			July	21398	21462
			Aug.	21312	21379
			Sept.	19498	19552
			Total	185482	183041
		Bulletin No. 130-67 Hydrologic Data <u>1967</u> Volume IV, San Joaquin Valley			
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions		
			Sept.	40	17
			Total	278	255
		Bulletin No. 130-68 Hydrologic Data <u>1968</u> Volume IV, San Joaquin Valley			
104		Table B-5 Laguna Water District	Diversions		
			May		90
			June		110
			July		110
			Aug.		90
			Total		400
107	1.9 L 2.9L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steen- strup Estate	John & Robert Bogetti



APPENDIX C
GROUND WATER MEASUREMENT

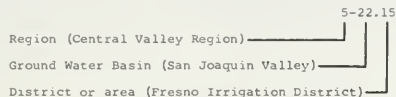
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the spring well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 538 wells for reporting of actual measurements.

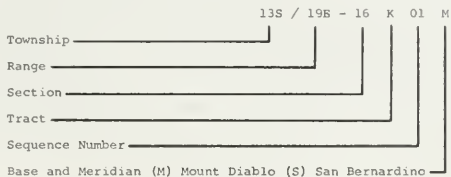
This appendix presents ground water measurement data on these 538 wells for the period October 1, 1968, through September 30, 1969. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

Figure C-I. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

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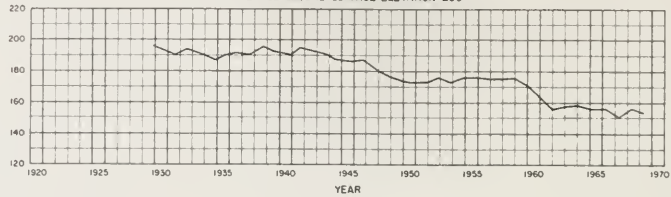
 F

 E

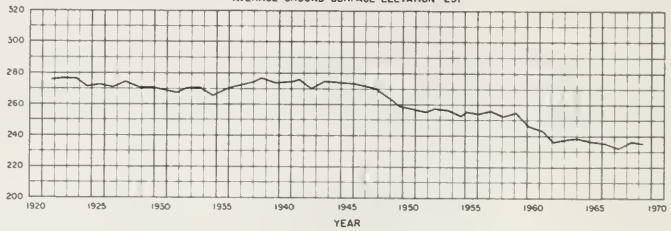
 E

 T

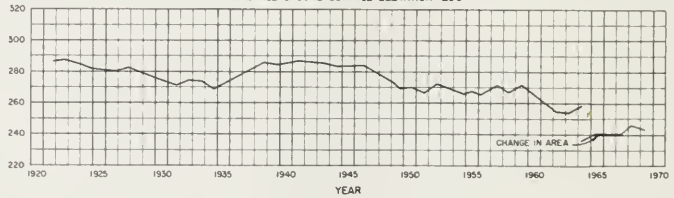
MADERA GROUND WATER AREA
 AREA 342.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
 AREA 404.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
 AREA 243.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
 AREA 18.15 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'

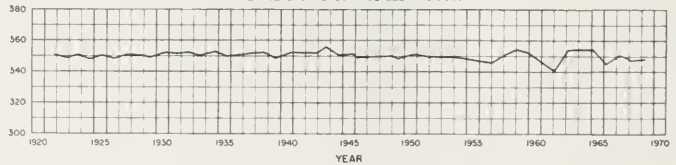
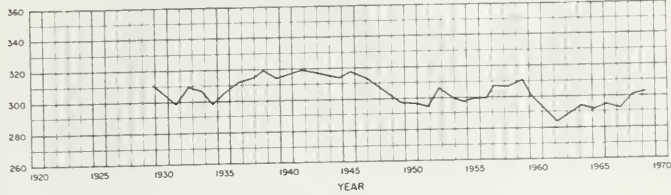


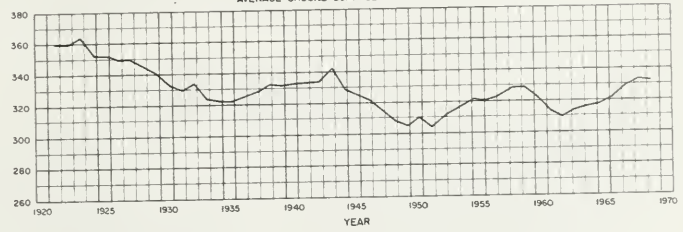
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C. & G.S. DATUM

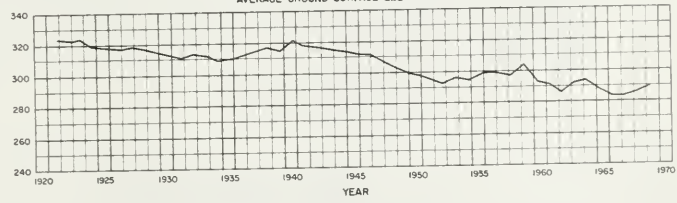
ALTA GROUND WATER AREA
 AREA 190.93 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 331'



IVANHOE GROUND WATER AREA
 AREA 17.37 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 383'



OUTSIDE IVANHOE GROUND WATER AREA
 AREA 76.65 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 345'



MILL CREEK GROUND WATER AREA
 AREA 128.25 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 305'

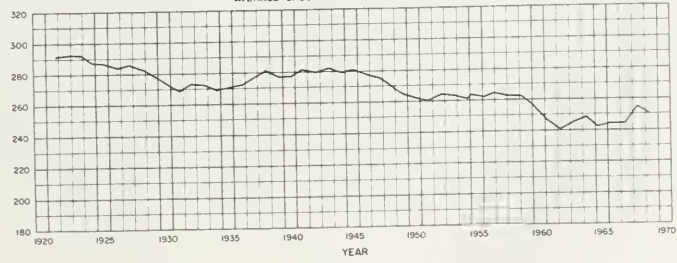
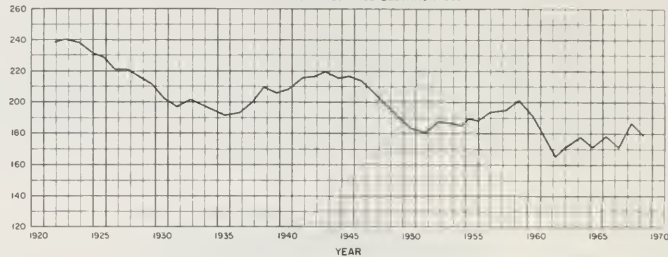


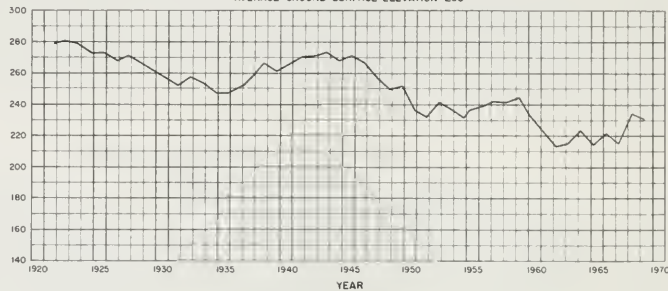
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

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P
H
I
C
D
A
T
A

TULARE GROUND WATER AREA
 AREA 121.07 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'



ELK BAYOU GROUND WATER AREA
 AREA 67.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 295'



LINDSAY-EXETER GROUND WATER AREA
 AREA 136.43 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 377'

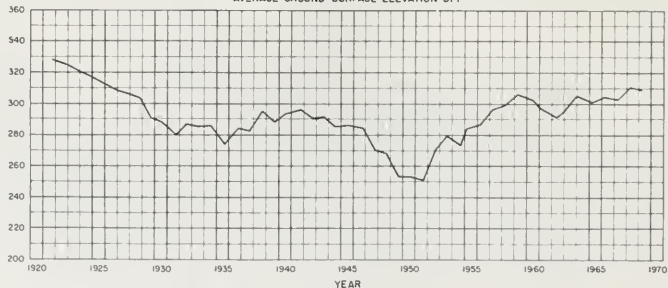
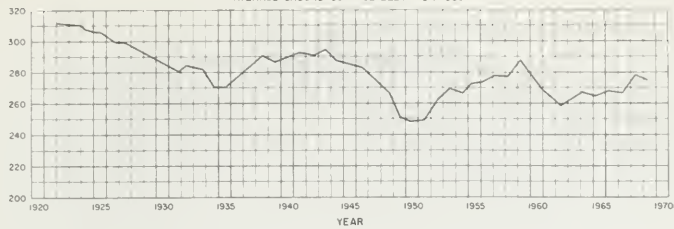


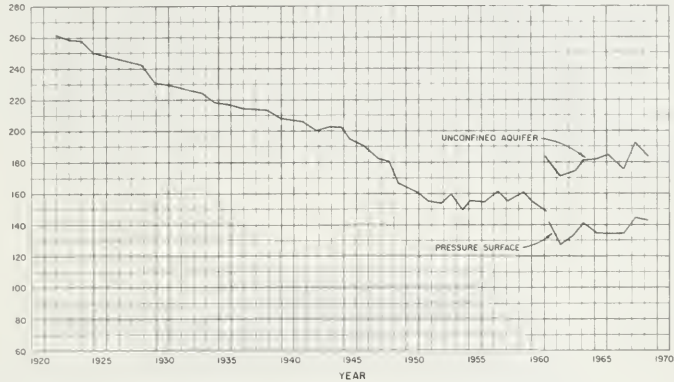
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

TULE RIVER GROUND WATER AREA
 AREA 156.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 339'



LOWER DEER CREEK GROUND WATER AREA
 AREA 162.22 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 297'

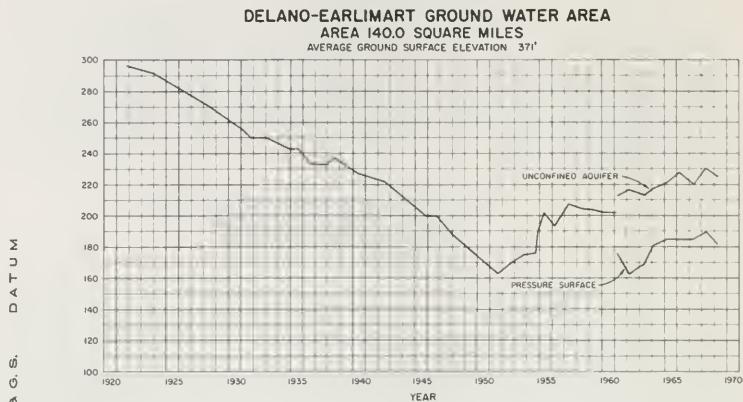
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MIDDLE DEER CREEK GROUND WATER AREA
 AREA 54.28 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 480'



Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



ELEVATION IN FEET U.S.C. & G.S. DATUM

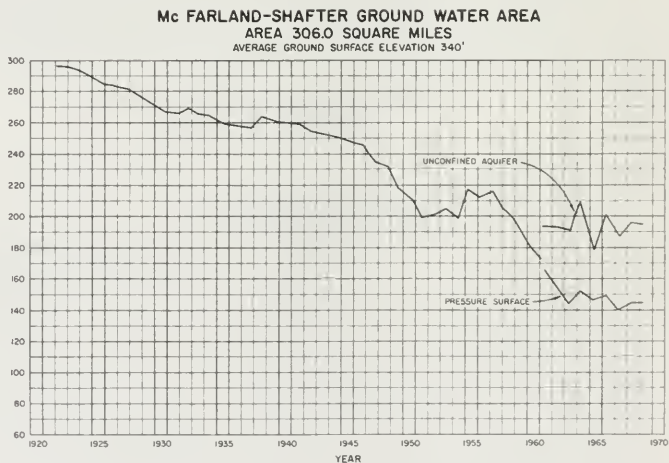
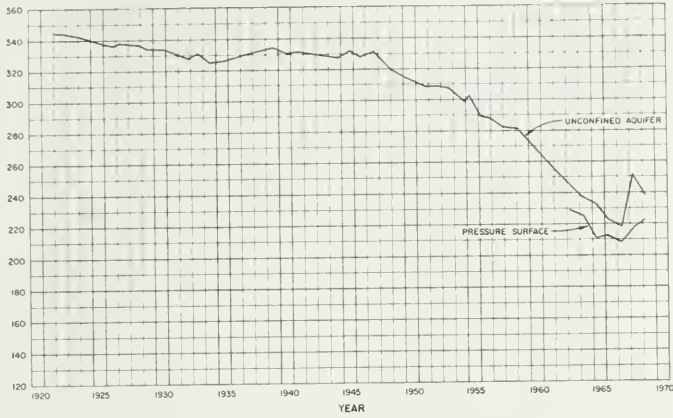


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C.&G.S. DATUM

ROSDALE GROUND WATER AREA
 AREA 78.88 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'



ARVIN-EDISON GROUND WATER AREA
 AREA 205.18 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 543'

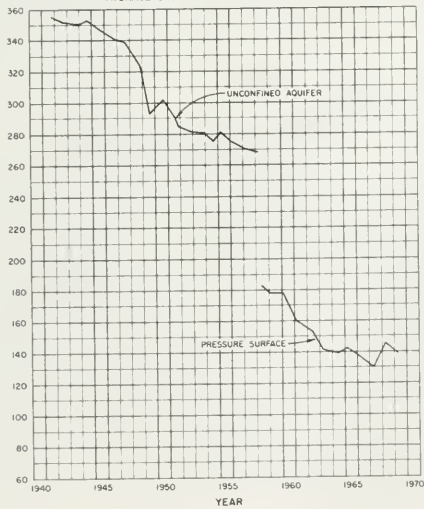


Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

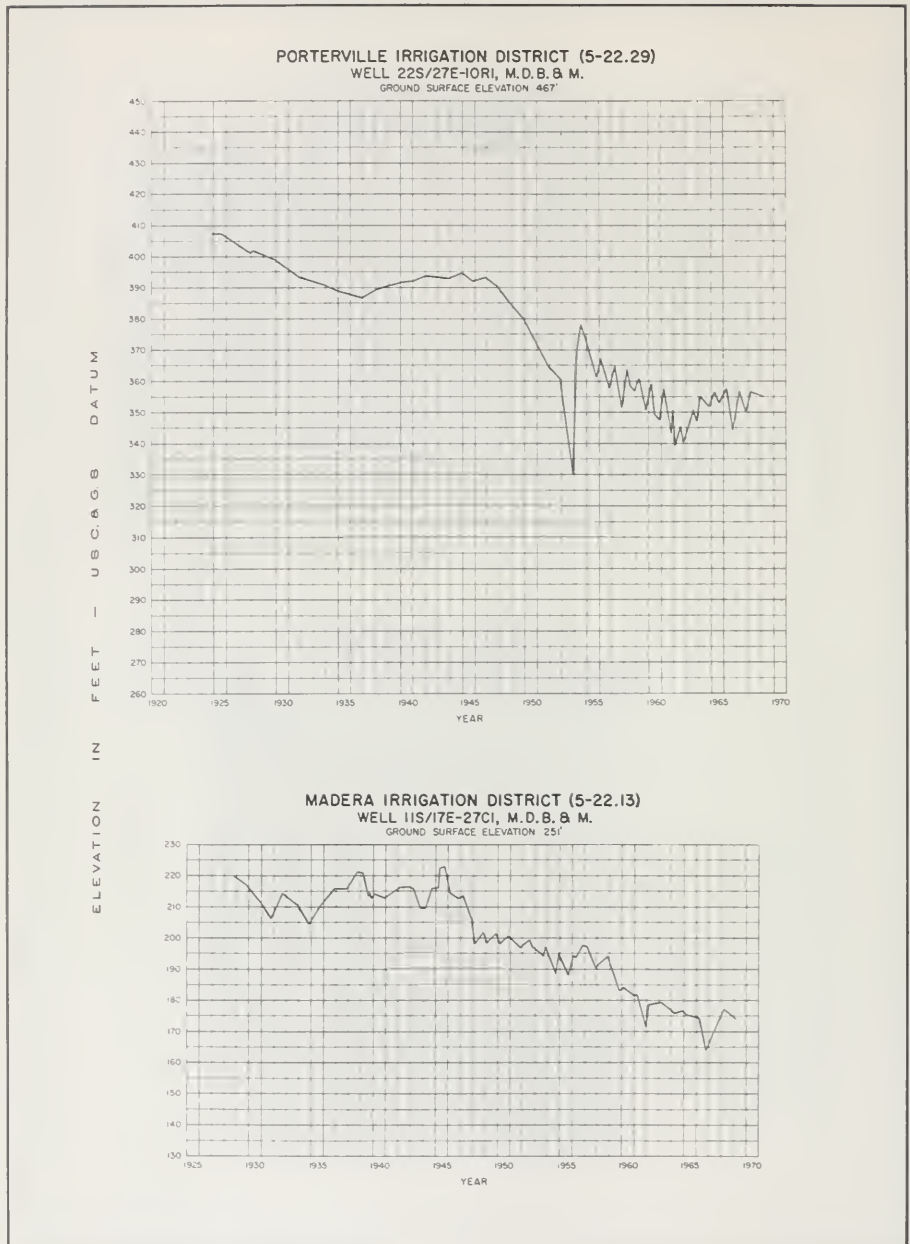
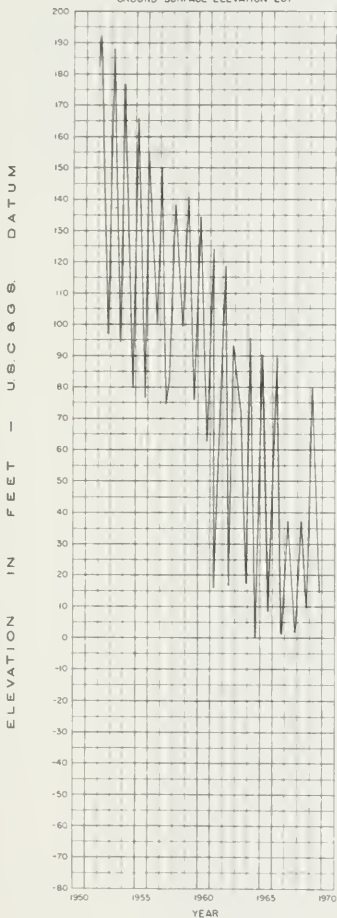
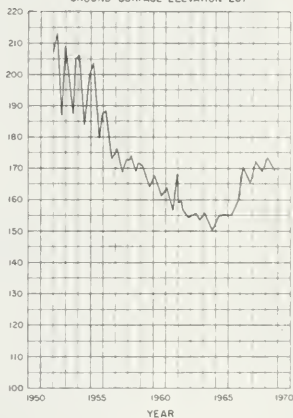


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)**
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'



**SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)**
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'



**MERCED IRRIGATION DISTRICT
(5-22.09)**
WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'

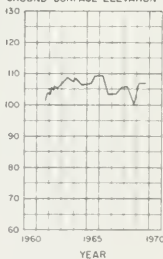
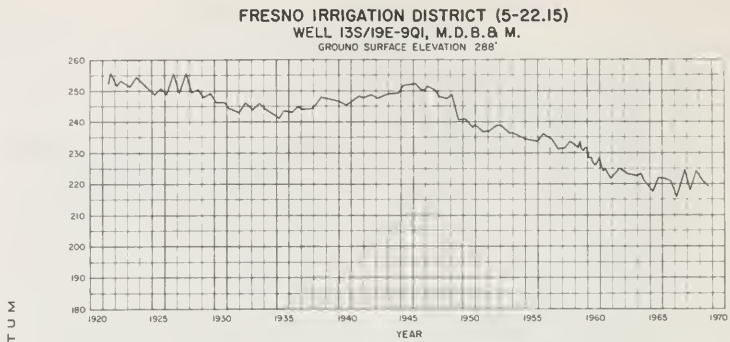


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



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U.S.C.&G.S.

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ELEVATION

NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B.&M.
 GROUND SURFACE ELEVATION 392'

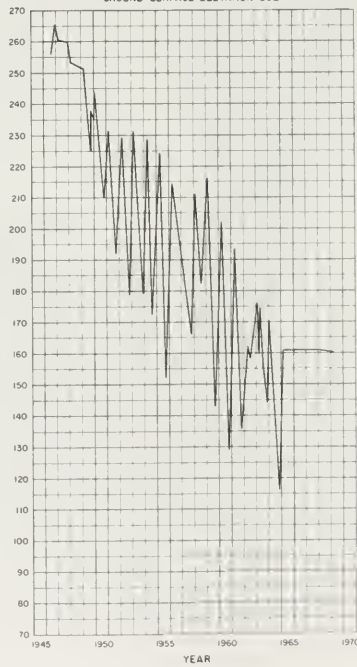
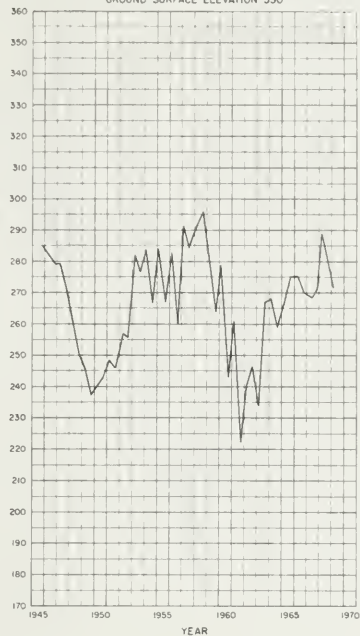


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 21S/26E-7A1, M.D.B.& M.
 GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B.& M.
 GROUND SURFACE ELEVATION 167'

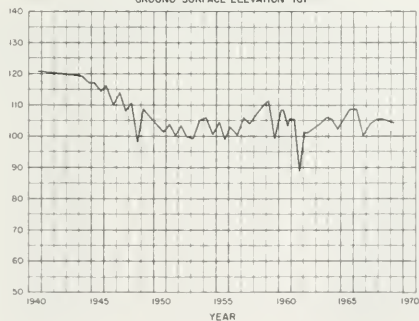


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET SUBJECT DATUM

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B. & M.
 GROUND SURFACE ELEVATION 414'



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

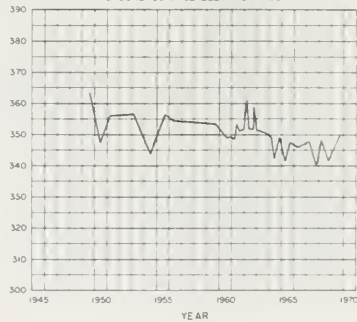
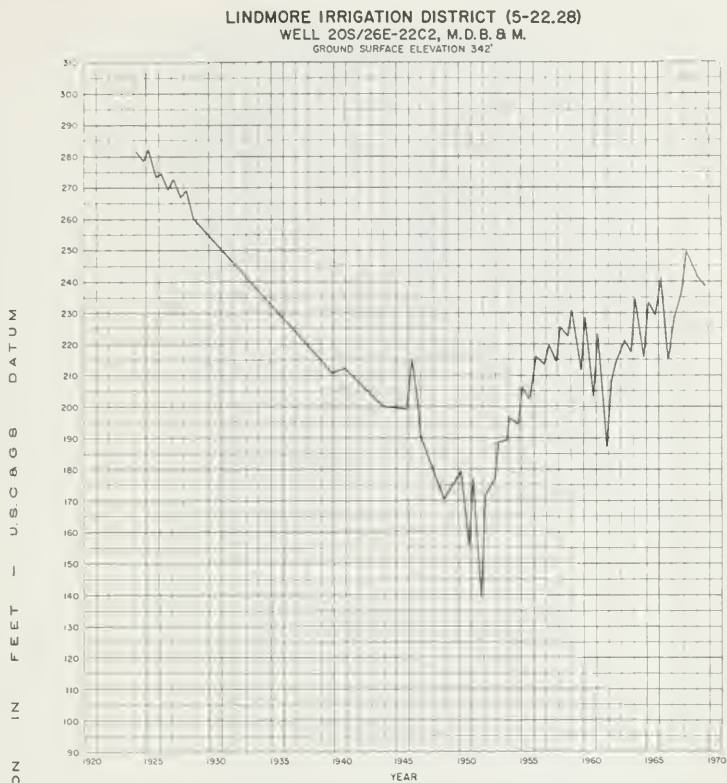
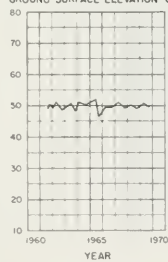


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



MODESTO IRRIGATION DISTRICT (5-22.07)

WELL 3S/8E-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



TURLOCK IRRIGATION DISTRICT (5-22.08)

WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

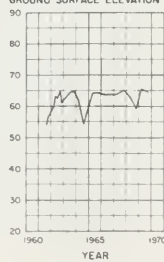
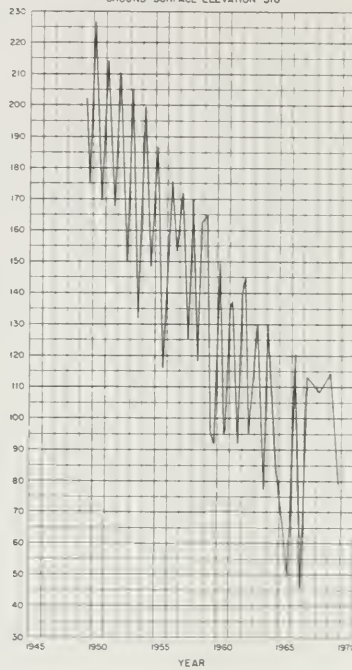


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

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SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
GROUND SURFACE ELEVATION 316'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-18N1, M.D.B. & M.
GROUND SURFACE ELEVATION 99'

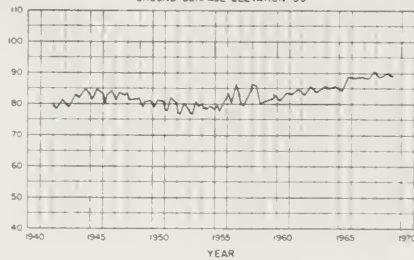
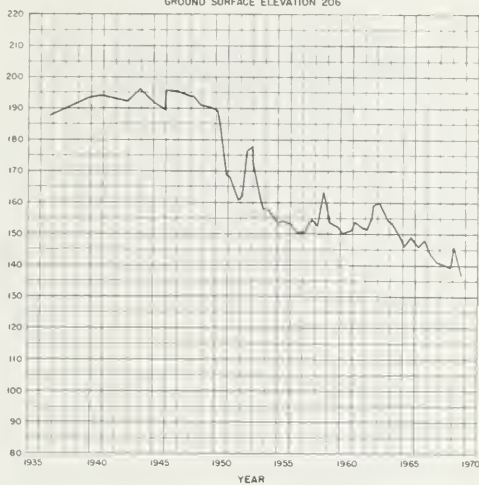


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

ALPAUGH-AlLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B. & M.
 GROUND SURFACE ELEVATION 206'



MENDOTA-HURON AREA (5-22.47)
WELL 17S/16E-24R1, M.D.B. & M.

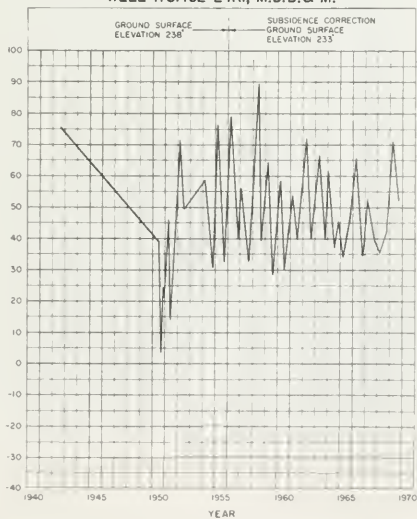


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

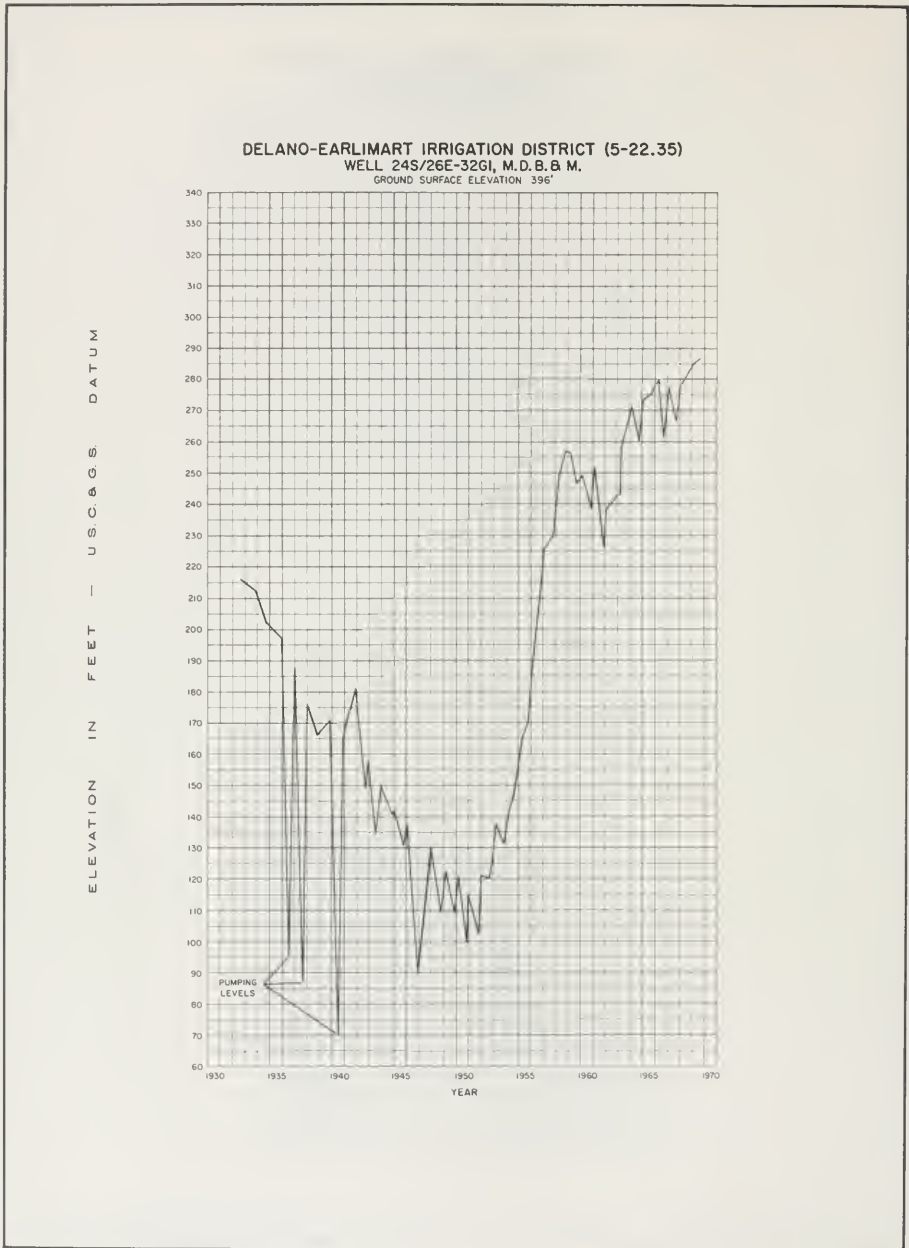
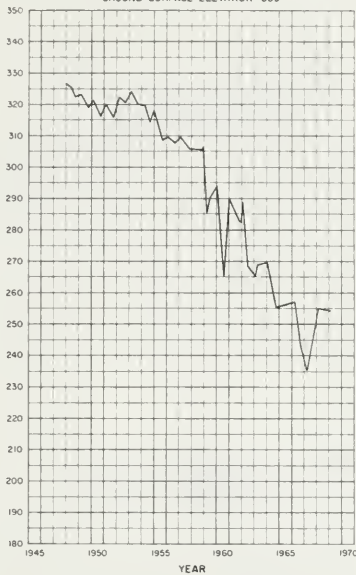


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S. C&G S. DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 339'



STONE CORRAL
IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 364'

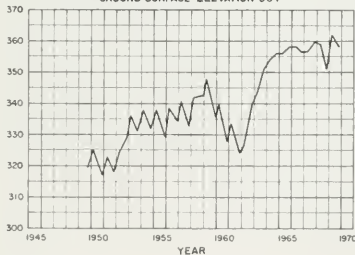
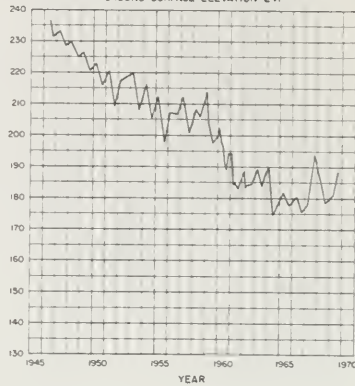


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C. & G.S. DATUM

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 247'



SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 371'

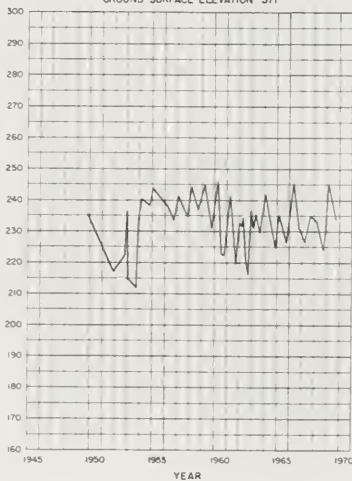


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C.&G.S. DATUM

MENDOTA-HURON AREA (5-22.47)
WELL 21S/18E-28M2, M.D.B. & M.
GROUND SURFACE ELEVATION 360'

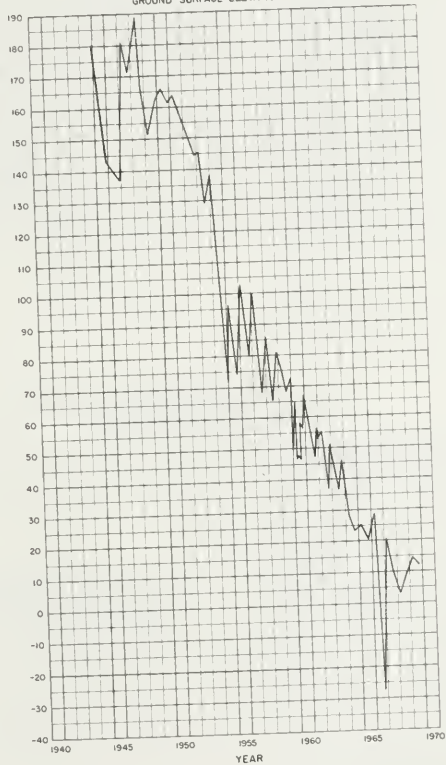


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C.G.S. DATUM

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B.&M.
 GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29D1, M.D.B.&M.
 GROUND SURFACE ELEVATION 446'

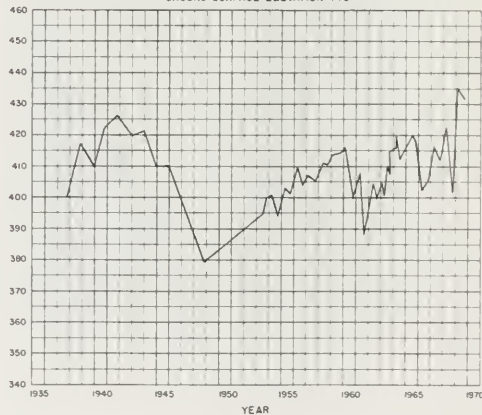


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

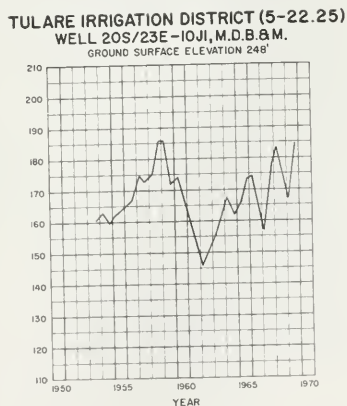
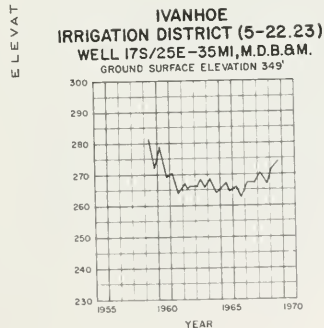
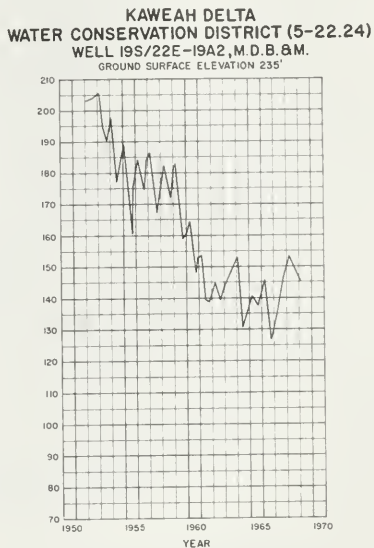
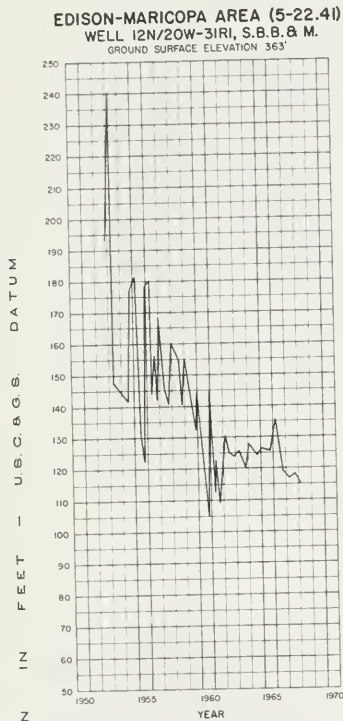


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

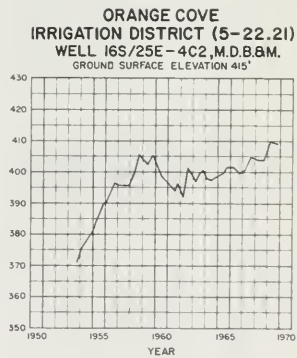
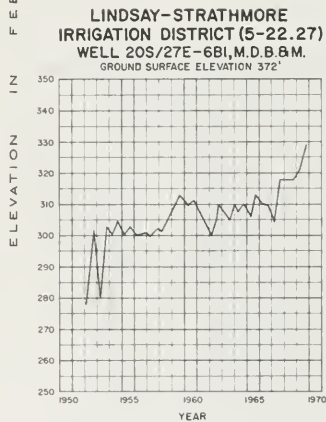
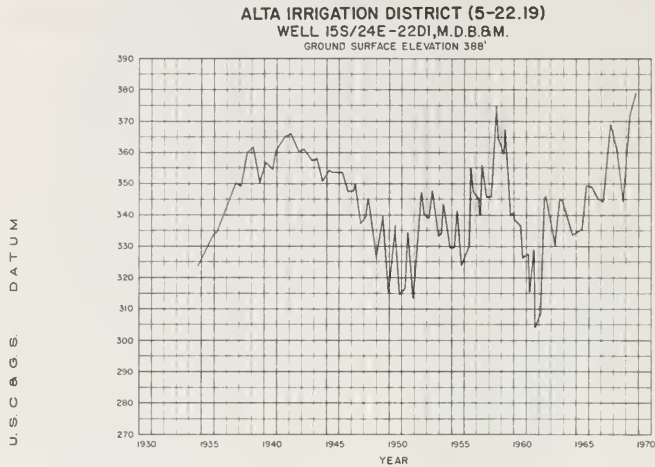


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

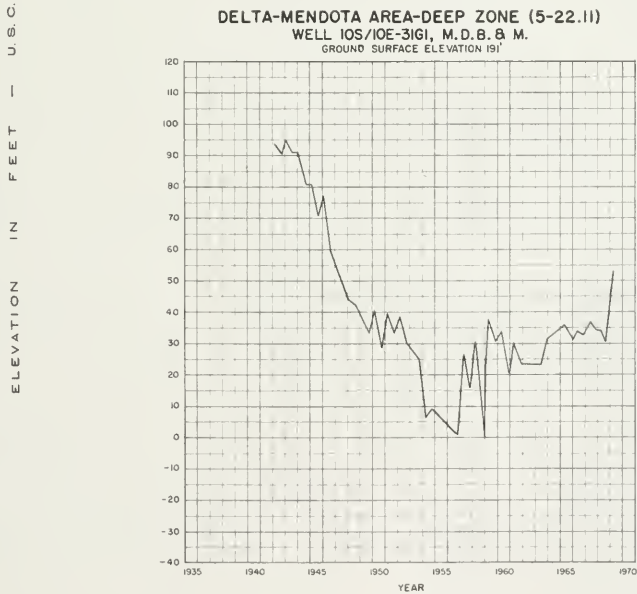
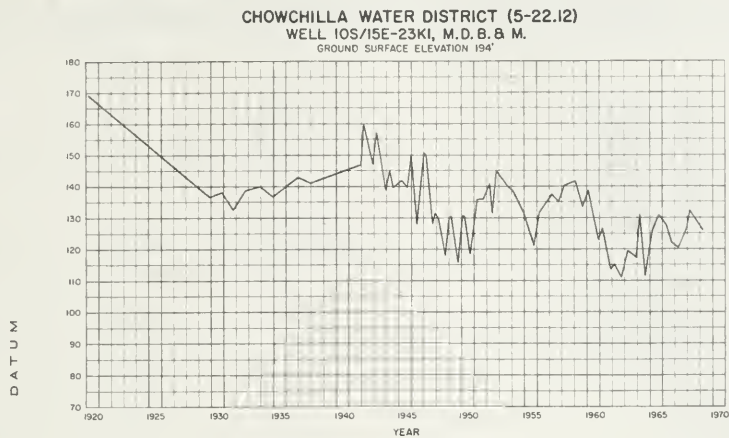


TABLE C-1
 CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1968 - Spring 1969

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Tracy Area	5-22.04	10	+ 3.0
Oakdale Irrigation District	5-22.06		- 1.5
Modesto Irrigation District	5-22.07		- 0.4
Turlock Irrigation District	5-22.08		+ 3.5
Merced Irrigation District	5-22.09		+ 5.7
El Nido Irrigation District	5-22.10		+ 6.7
Delta-Mendota Area	5-22.11	411	+ 2.7
Chowchilla Water District	5-22.12		- 4.5
Madera Irrigation District	5-22.13		- 3.0
West Chowchilla-Madera Area	5-22.14		+ 0.2
Fresno Irrigation District	5-22.15		- 0.3
City of Fresno	5-22.16	58	- 0.8
Fresno Slough Area	5-22.17		- 2.8
Consolidated Irrigation District	5-22.18		- 1.9
Alta Irrigation District	5-22.19		+ 4.0
Lower Kings River Area	5-22.20		
Shallow Zone			+ 1.5
Deep Zone			-15.3
Orange Cove Irrigation District	5-22.21	93	+ 1.8
Stone Corral Irrigation District	5-22.22	9	+ 1.5
Ivanhoe Irrigation District	5-22.23		- 1.8
Kaweah-Delta Water Conservation District	5-22.24		- 5.2
Tulare Irrigation District	5-22.25		- 7.8
Exeter Irrigation District	5-22.26		+ 1.0
Lindsay-Strathmore Irrigation District	5-22.27	19	- 0.1
Lindmore Irrigation District	5-22.28		- 7.2
Porterville Irrigation District	5-22.29		- 2.5
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			- 3.2
Deep Zone			+ 0.7
Vandalia Irrigation District	5-22.31	5	- 1.8
Saucelito Irrigation District	5-22.32		
Shallow Zone			- 9.2
Deep Zone			- 6.2
Pixley Irrigation District	5-22.33		
Shallow Zone			- 4.7
Deep Zone			- 3.4

TABLE C-1 (Cont.)
 CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1968 - Spring 1969

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			+ 2.5
Deep Zone			- 7.9
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			- 6.0
Deep Zone			- 5.0
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			- 3.0
Deep Zone			-11.4
North Kern Water Storage District	5-22.37		
Shallow Zone			- 5.7
Deep Zone			+ 2.6
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			+ 2.4
Deep Zone			- 1.0
City of Bakersfield	5-22.39	21	+ 0.1
Kern River Delta Area	5-22.40		
Shallow Zone			- 5.3
Deep Zone			- 1.4
Edison-Maricopa Area	5-22.41		
Deep Zone			- 4.0
Buena Vista Water Storage District	5-22.42		+ 7.1
Semitropic Water Storage District	5-22.43		
Shallow Zone			- 4.5
Deep Zone			+ 3.0
Avenal-McKittrick Area	5-22.44		No measurements made spring 1969.
Tulare Lake-Lost Hills Area	5-22.45	3	-19.0
Corcoran Irrigation District	5-22.46		
Shallow Zone			- 2.0
Deep Zone			-18.4
Mendota-Huron Area	5-22.47		
Deep Zone			+13.8 ^{b/}
Poso Soil Conservation District	5-22.48		+ 0.8
San Luis Canal Company	5-22.49		+ 4.2
Terra Bella Irrigation District	5-22.50	3	- 0.1
Merced Bottoms	5-22.54		+ 5.1
Centerville Bottoms Area	5-22.64		0.0
Garfield Water District	5-22.65	21	+ 2.6

TABLE C-1 (Cont.)
 CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1968 - Spring 1969

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Kings County Water District	5-22.66		
Shallow Zone			- 2.7
Deep Zone			-11.3
Pleasant Valley Area	5-22.69	6	+ 9.7

^{a/} Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

^{b/} Average change determined from water level measurements made during December 1967 and December 1968.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1969
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51 ^{a/} in feet	Net change in water level 1951-69 ^{b/} in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^{c/}	- 19.0
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 17.4
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 1.8
Centerville Bottoms	18.1	-----	+ 1.0	- 0.9
Alta	190.9	Alta Irrigation District	- 17.2 ^{c/}	+ 9.5
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 29.0
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	- 3.7
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 10.7
Tulare	121.1	Tulare Irrigation District	- 59.1	- 0.9
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	- 0.7
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 62.1
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 30.3
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	- 1.2 ^{e/} + 1.2 ^{f/}
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 16.6 ^{e/} - 50.4 ^{f/}
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 13.7 ^{e/} + 5.2 ^{f/}
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 2.9 ^{e/} - 20.9 ^{f/}
Rosedale	78.9	-----	- 36.3	- 58.8 - 6.6 ^{g/}
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^{d/}	- 22.3 ^{f/}

^{a/} 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

^{b/} Fall 1951 to spring 1969.

^{c/} Fall 1929 to fall 1951.

^{d/} Fall 1941 to fall 1951.

^{e/} Unconfined aquifer, spring 1961 to spring 1969, only one aquifer reported prior to 1961.

^{f/} Pressure surface, spring 1961 to spring 1969, only one aquifer reported prior to 1961.

^{g/} Pressure surface, spring 1963 to spring 1969, only one aquifer reported prior to 1963.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 151.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT

- | | |
|-----------------------------|-----------------------------|
| 0. Measurement discontinued | 5. Unable to locate well |
| 1. Pumping | 6. Well has been destroyed |
| 2. Pump house locked | 7. Special |
| 3. Tape hung up | 8. Casing leaking or wet |
| 4. Can't get tape in casing | 9. Temporarily inaccessible |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

<u>Agency Code</u>	<u>Agency</u>
5000	U. S. Geological Survey
5001*	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5129	Kings County Water District
5200	City of Fresno
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5527	El Nido Irrigation District
5528	Chowchilla Water District
5529	Poso Soil Conservation District
5608	Porterville Irrigation District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5644	Arvin-Edison Water Storage District
5700	Kern County Land Company

*A large amount of data listed under this agency code has been gathered by irrigation and water districts and compiled by the Bureau of Reclamation for transmittal to the Department of Water Resources.

**TABLE C-3
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL VALLEY REGION						MODESTO IRRIGATION DISTRICT					
SAN JOAQUIN VALLEY						5-22.00					
OKADALE IRRIGATION DISTRICT						5-22.06					
1S/09E-16J01 M	119.0	10-01-68 11-01-68 12-02-68 1-02-69 2-03-69 3-03-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	64.7 63.3 62.8 62.5 62.2 61.6 62.3 63.4 64.9 64.6 64.2	54.3 55.7 56.2 56.5 56.8 57.4 56.7 55.1 54.5 54.4 54.8	5520	2S/09E-30P01 M (Cont.)	93.0	7-07-69 8-04-69 9-02-69	18.8 19.8 21.6	74.2 73.2 71.4	5050
1S/09E-36A01 M	145.0	3-00-69	53.3	91.7	5520	2S/09E-31G01 M	100.3	3-03-69	33.0	67.3	5521
1S/10E-19L01 M	146.5	10-01-68 11-01-68 12-02-68 1-02-69 2-03-69 3-03-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	61.5 56.5 56.0 55.8 55.4 55.0 55.3 56.3 54.8 54.7 54.0	85.0 90.0 90.5 90.7 91.1 91.5 91.2 90.2 91.7 91.8 92.5	5520	3S/07E-12C01 M	47.0	10-04-68 11-01-68 12-03-68 1-02-69 2-06-69 3-03-69 4-02-69 5-06-69 6-02-69 7-07-69 8-04-69 9-02-69	7.1 9.2 10.1 10.2 8.4 6.1 5.0 3.1 4.3 4.2 4.2 5.2	39.9 37.8 36.9 36.8 38.6 40.9 42.0 43.9 42.8 42.8 41.8	5050
1S/10E-28J01 M	193.0	3-00-69	84.9	108.1	5520	3S/07E-35A02 M	40.0	10-09-68 11-01-68 12-03-68 1-02-69 2-06-69 3-03-69 4-02-69 5-06-69 6-02-69 7-07-69 8-04-69 9-02-69	5.4 5.0 5.0 4.9 2.8 1.3 3.2 2.5 3.1 4.2 2.9 3.6	34.6 35.0 35.0 35.1 37.2 38.7 36.8 37.5 36.9 36.7 37.1 36.4	5050
2S/09E-26P01 M	132.0	10-01-68 11-01-68 12-02-68 1-02-69 2-03-69 3-03-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	58.0 54.5 54.2 54.0 51.2 50.9 51.1 52.8 52.8 51.9 NM-1 53.0	74.0 77.5 77.8 78.0 80.8 81.1 80.9 79.2 79.2 80.1 79.0	5520	3S/08E-03A02 M	73.0	10-04-68 11-01-68 12-03-68 1-02-69 2-06-69 3-03-69 4-02-69 5-06-69 6-02-69 7-07-69 8-04-69 9-02-69	24.5 23.9 23.6 23.6 23.2 23.1 21.0 20.7 19.4 19.6 18.7 18.4	48.5 49.1 49.4 49.8 49.8 49.9 52.0 52.3 51.6 53.4 54.3 54.6	5050
2S/10E-04H01 M	185.5	10-01-68 11-01-68 12-02-68 1-02-69 2-03-69 3-03-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	80.5 79.1 78.9 78.2 77.3 76.9 77.5 78.0 78.4 78.8 78.3	105.0 105.4 106.9 107.3 108.2 108.6 108.0 107.5 107.1 106.7 107.2	5520	3S/08E-22C02 M	64.0	10-09-68 11-01-68 12-03-68 1-02-69 2-06-69 3-03-69 4-02-69 5-06-69 6-02-69 7-07-69 8-04-69 9-02-69	16.5 16.3 15.4 15.1 14.5 13.3 12.4 11.4 12.2 13.2 13.8 14.3	47.5 47.7 48.6 48.9 49.5 50.7 51.6 52.6 51.8 50.8 50.2 49.7	5050
2S/10E-33J01 M	165.0	3-00-69	61.0	104.0	5520	3S/08E-24C02 M	74.0	3-03-69	24.1	49.9	5521
2S/11E-29B01 M	218.0	10-01-68 11-01-68 12-02-68 1-02-69 2-03-69 3-03-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	97.6 95.4 94.0 93.1 92.6 91.8 91.4 93.7 95.0 94.7 96.2 96.0	120.4 122.6 124.0 124.9 125.4 126.2 126.6 124.3 123.0 123.3 121.8 122.0	5520	3S/09E-08D01 M	92.5	3-03-69	26.4	66.1	5521
2S/11E-31N01 M	192.0	3-00-69	76.2	115.8	5520	3S/09E-11M01 M	99.0	3-03-69	19.3	79.7	5521
2S/12E-31K01 M	190.0	3-00-69	42.1	147.9	5520	3S/09E-21A01 M	99.2	3-03-69	42.0	57.2	5521
3S/10E-15A01 M	152.0	10-01-68 11-01-68 12-02-68 1-02-69 2-03-69 3-03-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	55.4 52.8 50.4 49.3 48.5 47.5 46.6 47.1 49.8 49.8 49.4	96.6 99.2 101.6 102.7 103.5 104.5 105.3 104.9 102.2 102.2	5520	3S/09E-26P01 M	100.0	10-04-68 11-01-68 12-03-68 1-02-69 2-06-69 3-04-69 4-02-69 5-01-69 6-01-69 7-01-69 8-01-69 9-01-69	45.5 45.8 45.4 45.9 43.9 43.8 43.9 43.6 43.0 42.5 42.2 42.0	54.5 54.2 54.6 54.1 56.1 56.2 54.9 56.4 57.0 57.5 57.8 58.0	5050
3S/11E-18D01 M	162.0	3-00-69	55.1	106.9	5520	3S/10E-06G01 M	133.1	3-03-69	38.2	94.9	5521
MODESTO IRRIGATION DISTRICT						5-22.07					
2S/08E-25P01 M	94.0	3-03-69	31.5	62.5	5521	3S/10E-29K01 M	119.2	3-03-69	45.8	73.4	5521
2S/09E-30P01 M	93.0	10-04-68 11-01-68 12-03-68 1-02-69 2-06-69 3-03-69 4-02-69 5-06-69 6-02-69	30.0 32.7 31.0 31.4 26.4 24.2 24.2 18.5 17.9	63.0 60.3 62.0 61.6 66.6 68.8 68.8 74.5 75.1	5050	3S/10E-32G01 M	123.0	3-03-69	55.4	67.6	5521
						3S/10E-33E01 M	120.0	10-04-68 11-01-68 12-03-68 1-02-69 2-06-69 3-04-69 4-02-69 5-01-69 6-01-69 7-01-69 8-01-69 9-01-69	57.9 57.2 57.2 56.3 53.7 43.9 43.6 43.0 42.5 42.2 42.0	62.1 62.8 62.8 63.7 66.3 67.3 66.4 66.3 67.6 67.6 66.7 66.3	5050
						4S/08E-03P01 M	63.0	3-09-69	19.0	44.0	5521
MODESTO IRRIGATION DISTRICT						5-22.08					
4S/08E-22R01 M	55.0	10-09-68 11-01-68 12-03-68 1-06-69 2-06-69	8.0 8.0 8.7 10.1 9.1	47.0 47.0 46.3 44.9 45.9	5050						

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	
DELTA-MENDOTA AREA (Cont.)						DELTA-MENDOTA AREA (Cont.)						
			5-22-11							5-22-11		
6S/08E-16N01 M	129.5	10-07-68 3-17-69	60.4 54.9	69.1 74.6	5050	10S/11E-23D01 M	99.0	10-07-68	NM-6		5050	
6S/08E-21R02 M	133.0	10-01-68 11-04-68 12-02-68 1-03-69 2-06-69 3-06-69 4-09-69 5-05-69 6-05-69 7-07-69 8-06-69 9-05-69	62.3 67.7 60.6 67.0 NM-7 57.4 60.8 66.2 66.1 NM-7 60.4	70.7 65.3 72.2 66.0 75.6 72.2 66.8 67.9	5050	10S/11E-27E02 M	101.2	10-07-68 3-19-69	57.0 47.1	44.2 54.2	5050	
6S/08E-27J01 M	114.5	10-07-68 3-17-69	49.0 42.0	65.5 72.5	5050	11S/10E-11J01 M	157.3	10-09-68 3-19-69	55.8 47.7	101.5 109.6	5050	
6S/08E-29J01 M	190.0	10-07-68 3-17-69	NM-4 NM-4		5050	11S/10E-22Q01 M	246.8	10-08-68 3-18-69	142.8 108.5	104.0 138.3	5050	
7S/08E-22L01 M	127.9	10-08-68 3-20-69	46.0 42.4	81.9 85.5	5050	11S/11E-02J02 M	106.0	10-08-68 3-17-69	4.7 1.4	101.3 104.6	5050	
7S/09E-04R01 M	65.6	10-08-68 3-20-69	18.2 0.9	47.4 64.7	5050	11S/11E-22K01 M	114.2	10-08-68 3-19-69	3.8 1.5	110.4 112.7	5050	
7S/09E-26N01 M	63.4	10-08-68 3-18-69	8.4 0.6	60.0 67.8	5050	11S/11E-22Q03 M	114.0	10-08-68 3-18-69	12.6 14.7	101.4 99.3	5050	
8S/08E-01N01 M	123.2	10-08-68 3-20-69	15.1 20.0	108.1 103.2	5050	11S/12E-31C01 M	132.0	10-08-68 3-17-69	24.0 NM-9	108.0	5050	
8S/08E-15J01 M	172.8	10-08-68 3-20-69	53.0 26.7	119.8 146.1	5050	12S/12E-06D01 M	144.0	10-04-68	5.6	133.4	5001	
8S/09E-26H01 M	75.0	10-09-68 3-18-69	41.9 NM-9	33.1	5050	12S/12E-25D01 M	177.0	10-10-68 3-17-69	62.6 57.6	114.4 119.4	5001	
8S/09E-26H03 M	75.0	10-08-68 3-18-69	8.7 NM-9	66.3	5050	12S/12E-25D02 M	177.0	10-10-68 3-17-69	8.5 8.3	168.5 168.7	5001	
8S/10E-21L04 M	75.0	10-09-68 3-18-69	7.0 NM-9	68.0	5050	12S/13E-10N01 M	144.0	10-10-68 3-17-69	2.8 2.0	141.2 141.4	5001	
9S/08E-24A01 M	157.0	10-10-68 3-19-69	13.3 NM-4	143.7	5050	CHOWCHILLA WATER DISTRICT						
9S/09E-14N01 M	96.0	10-01-68 11-04-68 12-02-68 1-03-69 2-06-69 3-06-69 4-09-69 5-05-69 6-03-69 7-07-69 8-05-69 9-05-69	64.6 66.4 46.2 42.7 NM-7 35.2 34.3 32.6 NM-7 NM-7 NM-7 43.5	31.4 29.6 47.8 53.3 60.8 61.7 63.4 52.5	5050	9S/14E-25R01 M	185.0	2-20-69	68.0	117.0	5001	
9S/09E-18N01 M	153.6	10-08-68 3-19-69	32.4 16.0	121.2 137.6	5050	9S/15E-22R02 M	216.5	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-23-69 5-22-69 6-26-69 7-28-69 8-19-69 9-17-69	117.5 110.2 94.2 NM-3 NM-0 46.9 95.4 87.1 87.8 NM-1 NM-1 NM-1 123.5 125.8	106.0 99.3 122.3	5001	
9S/09E-23L01 M	100.0	10-10-68 3-19-69	70.8 41.3	29.2 58.7	5050	9S/15E-25J02 M	230.0	2-20-69	46.9	183.1	5001	
9S/10E-19B01 M	84.0	10-09-68 3-18-69	3.1 NM-9	80.9	5050	9S/15E-27A01 M	216.5	2-20-69 3-27-69 4-23-69 5-22-69 6-26-69 7-28-69 8-19-69 9-17-69	95.4 121.1 87.4 87.8 NM-1 NM-1 NM-1 123.5 125.8	121.1 109.4 128.7	5001	
9S/10E-23J01 M	87.0	10-09-68 3-18-69	58.4 39.7	28.6 47.3	5050	9S/16E-22R01 M	267.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-23-69 5-22-69 6-26-69 7-28-69 8-19-69 9-16-69	44.0 43.2 43.5 43.9 39.0 41.3 36.9 41.2 41.0 41.6 41.2 41.2	223.0 223.8 223.7 223.1 228.0 225.7 230.1 225.5 226.0 225.4 225.8 225.8	5001	
9S/11E-16H01 M	91.0	10-08-68 3-20-69	10.0 6.3	81.0 84.7	5050	9S/17E-19L01 M	292.0	3-07-69	81.9	210.1	5528	
9S/11E-20J01 M	90.5	10-09-68 3-20-69	43.2 38.6	47.3 51.9	5050	9S/17E-35J01 M	380.0	2-17-69	88.2	231.8	5001	
10S/09E-06A01 M	147.0	10-09-68 3-19-69	8.9 6.5	138.1 140.5	5050	9S/18E-33Q01 M	365.0	2-17-69	58.3	306.7	5001	
10S/09E-06B01 M	167.0	10-09-68 3-20-69	72.0 59.0	95.0 108.0	5050	10S/14E-01A01 M	179.0	10-25-68 11-21-68 12-25-68 1-21-69 2-20-69 3-27-69 4-23-69 5-22-69 6-26-69 7-28-69 8-19-69 9-17-69	80.0 77.4 75.3 79.1 81.5 79.1 72.0 71.0 NM-1 NM-1 NM-1 NM-1 81.2	39.0 101.6 103.7 99.9 85.5 105.6 107.0 108.0	5001	
10S/10E-02R01 M	99.5	10-10-68 3-21-69	22.3 17.9	77.2 81.6	5050	10S/14E-01R02 M	177.0	2-28-69	70.4	106.6	5528	
10S/10E-11R01 M	106.6	10-10-68 3-21-69	22.5 19.2	84.1 87.4	5050	10S/14E-24R01 M	167.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-25-69 5-21-69 6-26-69 7-28-69 8-19-69 9-17-69	89.3 80.2 86.7 86.0 81.5 79.1 81.9 79.0 72.7 80.0 77.7	77.7 76.8 80.3 81.0 85.5 87.9 95.1 93.0 94.3 87.0 89.3	5001	
10S/10E-31O01 M	191.1	10-01-68 11-04-68 12-02-68 1-03-69 2-06-69 3-06-69 4-09-69 5-05-69 6-03-69 7-07-69 8-05-69 9-05-69	160.8 154.8 163.3 159.7 NM-7 137.7 137.1 139.0 NM-7 NM-7 NM-7 157.7	30.3 36.3 27.8 31.4 53.4 58.0 52.1	5050	10S/15E-02Q01 M	212.5	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69	NM-1 86.7 92.6 82.2 79.2 75.2	115.8 110.4 130.3 134.3 137.3	5001	
10S/10E-32N01 M	189.5	10-10-68 3-21-69	145.9 131.0	43.6 58.5	5050							

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CHOWCHILLA WATER DISTRICT					
			5-22.12		
105/15E-02Q01 M (Cont.)	212.5	4-25-69 5-21-69 6-26-69 7-28-69 8-19-69 9-17-69	NM-1 58.0 101.7 102.8 113.7 104.7	124.5 110.8 109.7 98.8 107.8	5001
105/15E-23K01 M	195.5	3-06-69	69.0	126.5	5001
105/15E-27003 M	184.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-25-69 5-21-69 6-26-69 7-28-69 8-19-69 9-17-69	NM-1 80.3 75.7 80.8 73.7 71.2 69.7 71.6 NM-1 NM-1 76.5 72.7	103.7 105.3 103.2 110.3 112.8 114.3 112.4	5001
105/16E-09E01 M	232.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-25-69 5-21-69 6-26-69 7-28-69 8-19-69 9-17-69	NM-1 86.7 81.5 80.5 77.2 76.5 76.5 NM-1 NM-1 NM-1 76.5 72.7	146.3 150.5 151.3 154.8 155.5 155.5	5001
105/16E-29R01 M	209.5	2-19-69	78.2	131.3	5001
MADERA IRRIGATION DISTRICT					
			5-22.13		
105/18E-20B01 M	326.0	2-17-69	72.7	253.3	5001
105/19E-16D01 M	387.0	2-17-69	18.2	368.8	5001
115/16E-06A01 M	196.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	73.9 71.7 70.0 68.5 69.0 63.8 64.2 63.8 64.8 66.5 69.2 63.9	122.1 124.3 126.0 127.5 127.0 132.2 131.8 132.2 131.2 129.6 130.8 132.1	5001
115/16E-10N01 M	204.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	74.8 73.9 72.2 71.4 NM-9 63.4 61.1 60.6 61.3 62.7 63.0 62.0	129.2 130.1 131.8 132.6 140.6 142.9 143.4 142.7 141.3 141.0 142.0	5001
115/17E-27C01 M	250.0	2-13-69	76.1	173.9	5001
115/18E-20N01 M	272.5	2-10-69	83.7	188.8	5001
115/18E-27M01 M	284.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	84.4 82.3 81.0 78.8 NM-9 80.8 82.3 80.8 82.3 84.1 82.6 82.9 79.1	199.6 201.7 203.0 205.2 201.2 201.7 200.8 199.9 201.4 200.5 202.5 204.9	5001
125/17E-23A01 M	205.0	2-10-69	85.6	119.4	5001
125/17E-08001 M	230.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	88.1 85.1 85.3 75.2 79.8 78.2 79.4 80.2 82.5 84.9 83.5 81.7	141.9 144.9 146.7 150.8 150.2 151.8 150.6 149.8 147.5 145.1 146.5 148.3	5001
125/17E-21N01 M	228.0	2-12-69	61.9	166.1	5001
125/17E-26C01 M	235.0	10-29-68 11-26-68 12-27-68 1-30-69	65.1 61.3 60.4 56.3	169.9 173.2 174.6 178.7	5001
MADERA IRRIGATION DISTRICT					
			5-22.13		
125/17E-26C01 M (Cont.)	235.0	2-26-69 3-26-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	60.8 61.8 66.7 65.4 64.1 69.0 71.7 69.2	174.2 179.7 168.3 169.6 170.9 166.0 163.3 165.8	5001
125/17E-34R01 M	234.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	NM-1 55.8 55.8 52.1 54.2 57.0 54.5 54.7 55.4 58.2 56.5 55.2	178.2 179.8 181.9 179.8 176.5 179.5 179.3 178.6 175.8 177.8 178.8	5001
125/18E-13R01 M	288.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	80.8 80.5 78.0 79.3 79.4 78.2 79.8 77.2 78.5 78.7 77.2 76.8	207.2 207.5 210.0 208.7 208.6 209.8 208.2 210.6 209.5 209.3 205.1 211.2	5001
125/18E-21001 M	265.0	2-21-69	73.6	191.4	5001
125/18E-21H01 M	267.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	75.3 72.3 70.2 63.0 73.5 73.0 71.9 71.4 73.1 75.4 70.6 69.6	191.7 194.7 186.7 204.0 193.5 191.0 195.1 195.6 193.9 191.6 196.4 197.4	5001
125/19E-28A01 M	307.5	2-11-69	91.3	216.2	5001
WEST CHOWCHILLA-MADERA AREA					
			5-22.14		
105/13E-22R01 M	119.0	2-17-69	22.8	96.2	5001
105/14E-08B03 M	147.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-21-69 5-22-69 6-26-69 7-28-69 8-19-69 9-17-69	90.0 84.2 80.8 80.3 76.1 71.7 69.7 77.2 86.4 89.2 93.0 92.5	57.0 62.8 66.2 66.7 70.9 75.3 77.3 69.8 60.6 57.8 54.0 54.5	5001
105/14E-31H01 M	130.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-25-69 5-21-69 6-26-69 7-28-69 8-19-69 9-17-69	41.4 43.0 38.6 37.0 35.6 36.6 36.4 35.7 37.1 41.1 38.3	88.6 87.0 91.4 93.0 94.8 97.4 94.8 92.7 96.4 88.9 91.7	5001
105/14E-35F01 M	151.0	10-25-68 11-21-68 12-24-68 1-21-69 2-20-69 3-27-69 4-25-69 5-21-69 6-26-69 7-28-69 8-19-69 9-17-69	90.5 88.5 89.2 87.7 87.3 84.5 83.5 81.1 81.1 88.9 83.3	60.5 62.8 71.8 72.3 73.7 86.5 87.5	5001
115/14E-13R01 M	150.0	10-24-68 11-22-68 12-24-68 1-28-69 2-20-69 3-27-69 4-25-69 5-21-69 6-27-69 7-31-69 8-20-69 9-17-69	NM-1 48.6 43.9 52.0 42.1 38.7 41.1 41.1 41.1 48.6 47.5 42.1	101.4 106.1 98.0 107.9 98.7 111.3	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST CHOWCHILLA-MADERA AREA (Cont.)						FRESNO IRRIGATION DISTRICT					
		5-22-14						5-22-15			
11S/15E-33E01 M	158.0	2-14-69	48.5	109.5	5001	13S/19E-09Q01 M (Cont.)	288.2	4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	67.2 65.3 NM-1 64.0 64.5 69.2 NM-1	221.1 222.9 224.2 223.7 219.0	5001
11S/15E-33F01 M	158.0	10-24-68 11-22-68 12-24-68 1-22-69 2-24-69 3-28-69 4-25-69 5-21-69 6-27-69 7-31-69 8-20-69 9-18-69	61.1 NM-9 NM-9 NM-9 34.4 38.3 106.9 56.9 60.3 61.5 61.0	96.9 111.1 123.6 134.8 106.9 101.1 97.3 96.5 97.0		13S/19E-16K01 M	290.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	73.7 75.8 77.3 74.7 74.5 74.1 75.9 77.2 73.0 73.8 76.4 77.7	216.3 216.2 212.7 215.3 215.5 215.9 212.8 217.0 218.2 213.6 212.3	5001
12S/15E-14L01 M	165.1	2-07-69	NM-9		5001	13S/20E-02L01 M	339.0	10-30-68 11-29-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	94.9 61.7 92.4 90.9 90.2 92.4 92.4 96.3 98.0 92.4 95.2 93.0	248.1 247.3 246.6 248.1 248.8 246.6 246.6 242.7 241.0 246.6 243.8 246.0	5631
13S/16E-02C01 M	194.0	10-29-68 11-26-68 12-27-68 1-30-69 2-26-69 3-28-69 4-28-69 5-28-69 6-27-69 7-30-69 8-29-69 9-29-69	72.4 70.4 69.9 62.0 59.2 57.8 62.5 64.1 73.4 77.5 84.2 84.0	121.6 123.6 124.1 132.0 134.8 136.2 131.5 159.9 120.6 116.5 105.1 110.0	5001	13S/23E-31F01 M	406.5	2-27-69	25.6	380.9	5631
FRESNO IRRIGATION DISTRICT						CITY OF FRESNO					
		5-22-15									
12S/20E-14A01 M	365.0	2-10-69	96.4	268.6	5001	14S/18E-08J01 M	227.4	10-30-68 11-29-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	67.6 66.2 66.2 65.2 65.0 NM-1 67.2 67.0 71.0 75.7 69.7 64.4	160.2 159.8 161.2 161.2 162.8 162.4 160.4 160.4 156.4 151.7 157.7 163.0	5631
12S/21E-38J01 M	387.7	10-30-68 11-20-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	56.7 53.2 53.8 53.4 50.9 43.6 44.2 NM-1 44.6 45.2 43.1 46.5	331.0 336.3 333.9 334.3 334.3 344.1 343.5 343.1 343.5 344.6 344.6 345.2	5631	14S/19E-20B02 M	245.0	10-30-68 11-29-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	56.0 56.0 56.0 58.4 55.2 56.6 52.0 49.7 49.4 49.8 48.9 49.5	189.0 189.0 189.0 189.8 189.8 196.4 193.0 195.3 195.6 195.2 196.1 195.5	5631
12S/22E-21E01 M	473.0	2-10-69	NM-9		5001	14S/20E-06J01 M	279.4	10-30-68 11-29-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	68.5 66.8 66.4 65.9 64.9 67.0 67.0 67.6 67.8 68.1 64.5	210.9 212.6 213.0 213.5 214.5 214.8 212.4 211.8 211.6 211.3 214.9	5631
13S/17E-22B01 M	220.8	10-31-68 11-29-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	39.6 39.9 39.9 39.8 43.8 38.4 38.4 33.4 31.7 31.9 30.9 31.6	181.2 180.9 180.9 181.0 177.0 182.4 182.4 187.4 189.1 188.9 189.9 189.2	5631	14S/20E-13E02 M	282.5	10-30-68 11-29-68 12-27-68 1-31-69 3-01-69 4-01-69 5-01-69 6-01-69 7-01-69 7-30-69 8-29-69 9-30-69	37.4 35.8 34.3 33.4 38.5 36.8 36.8 36.4 35.2 34.3 30.2 32.1	245.1 245.7 246.2 244.0 244.0 245.7 245.7 246.1 247.3 248.2 252.3 250.4	5631
13S/17E-33D01 M	211.0	10-23-68 11-20-68 12-27-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	62.6 51.2 52.2 53.7 53.0 58.0 55.5 54.4 58.2 60.0 53.2 53.1	148.4 155.8 154.8 157.3 159.0 158.4 155.5 156.6 156.8 151.0 157.8 157.9	5001	13S/18E-10P01 M	258.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	48.3 51.1 51.5 51.1 50.1 51.2 53.1 54.5 49.8 48.5 48.4 49.6	209.7 206.9 206.5 206.9 207.1 206.8 204.9 203.5 208.2 209.5 209.4 208.4	5001
13S/18E-16D01 M	253.0	2-12-69	52.2	200.8	5001						
13S/18E-34D01 M	245.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	58.0 58.6 58.6 57.8 57.9 57.9 60.2 60.5 55.4 54.4 56.1 49.6	187.0 181.9 186.4 187.2 187.1 187.1 184.8 184.2 189.6 190.3 188.9	5001						
13S/19E-09Q01 M	288.2	10-30-68 11-29-68 12-27-68 1-31-69 3-01-69	66.0 61.7 65.5 NM-7 NM-1	222.2 222.5 222.7	5001	13S/20E-21J01 M	310.0	3-01-69	96.1	213.9	5200
						13S/20E-23B01 M	325.0	10-30-68 11-25-68 12-30-68 1-23-69 2-27-69 3-26-69 4-28-69 5-27-69 7-01-69 7-30-69 8-27-69	95.2 95.2 95.1 95.3 94.3 94.0 94.0 94.3 94.6 95.8 95.5	229.8 229.8 229.9 229.7 230.7 231.0 231.0 230.7 230.4 229.2 229.5	5200
						13S/20E-28E01 M	299.3	10-31-68 11-26-68 12-30-68 1-30-69	92.0 89.0 88.0 88.7	207.3 210.1 210.3 210.6	5200

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CITY OF FRESNO						FRESNO SLOUGH AREA (Cont.)					
			5-22-16						5-22-17		
13S/20E-28E01 M (Cont.)	299.3	2-27-69 4-28-69 5-27-69 7-01-69 7-30-69 8-27-69	87.9 87.0 87.2 85.4 90.0 91.0 92.5	211.4 212.3 212.1 210.7 209.3 208.3 206.8	5200	15S/18E-07A02 M	204.0	10-23-68 11-20-68 12-23-68 1-02-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	121.5 112.3 109.7 107.0 102.3 100.2 100.5 105.3 115.5 121.5 120.5 117.2	5001	
13S/20E-35N02 M	305.3	11-01-68 11-29-68 12-31-68 2-03-69 3-03-69 3-27-69 4-29-69 5-27-69 7-07-69 7-31-69 8-28-69	89.5 88.4 95.5 86.4 85.4 82.3 82.5 83.4 85.6 87.4 88.6	215.8 216.9 219.8 219.9 219.9 223.0 222.8 221.5 219.7 217.9 216.7	5200	15S/18E-16Q01 M	205.8	2-18-69	116.0	89.8	5001
14S/20E-10M01 M	291.4	10-30-68 11-27-68 12-31-68 1-31-69 2-28-69 3-27-69 4-29-69 5-28-69 7-01-69 7-31-69 8-28-69	82.5 79.9 79.9 78.7 75.9 75.5 67.0 80.0 82.3 85.0 84.8	208.9 211.5 211.5 212.7 215.5 215.9 224.4 211.4 208.6 206.4 206.6	5200	16S/17E-23N01 M	185.0	2-05-69	NM-8		5001
FRESNO SLOUGH AREA						CONSOLIDATED IRRIGATION DISTRICT					
			5-22-17						5-22-18		
13S/15E-28N01 M	162.0	2-17-69	27.4	134.6	5001	16S/18E-03J01 M	206.0	11-06-68 12-11-68 1-02-69 1-30-69 4-07-69 4-29-69 6-10-69 7-03-69 7-03-69 8-04-69 8-29-69	129.5 125.0 127.5 121.8 119.5 111.0 127.5 111.0 134.0 111.0		
14S/15E-25N02 M	160.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	29.4 24.8 23.3 23.0 18.9 18.9 21.1 25.6 26.3 26.9 26.4 27.1	130.6 135.2 136.7 137.0 141.1 138.9 134.4 133.7 133.1 133.9 132.9	5001	16S/18E-27C01 M	198.0	3-11-69	120.9	77.1	5050
14S/16E-03Q01 M	177.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	60.6 56.7 54.0 28.0 31.6 31.6 29.4 28.0 24.1 24.1 24.1 24.1 64.0 64.0 NM-1	116.0 120.3 123.0 137.0 116.4 116.4 122.0 135.6 135.6 137.0 133.4 135.6 137.0 113.0	5001	16S/19E-34P01 M	220.0	11-06-68 12-11-68 1-02-69 1-30-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 7-03-69 8-04-69 8-29-69	108.0 113.8 113.5 107.5 106.0 99.0 101.0 106.0 111.0 112.0 121.0 114.0	5050	
14S/16E-08D01 M	165.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	49.0 43.0 NM-1 31.6 29.4 29.4 28.0 24.1 24.1 24.1 24.1 64.0 64.0 NM-1	116.0 122.0 133.4 135.6 135.6 137.0 133.4 135.6 137.0 113.0	5001	17S/17E-12N01 M	199.0	3-11-69	NM-9		5050
14S/16E-22N01 M	163.0	2-17-69	25.4	137.6	5001	17S/18E-23A02 M	200.0	3-11-69	70.3	129.7	5050
14S/17E-25A01 M	211.0	2-06-69	82.3	128.7	5001	CONSOLIDATED IRRIGATION DISTRICT					
15S/16E-01L01 M	171.0	2-13-69	NM-5		5001	14S/22E-22N01 M	355.7	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	28.8 29.3 29.3 29.5 27.6 27.6 27.6 29.8 26.2 29.9 29.9 29.6 25.1 24.8	5636	
15S/16E-12C03 M	169.5	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	34.9 34.2 33.5 35.0 33.5 33.5 27.5 26.3 24.1 24.2 25.6 26.2	134.6 135.3 135.4 134.5 136.0 139.5 142.0 143.2 145.1 145.3 143.9 143.3	5001	14S/22E-22N01 M	355.7	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	28.8 29.3 29.3 29.5 27.6 27.6 29.8 26.2 29.9 29.9 29.6 25.1 24.8	5636	
15S/17E-22R01 M	187.0	2-07-69	91.7	95.3	5001	15S/19E-24N01 M	246.6	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	87.0 86.1 84.3 82.9 82.0 80.6 79.6 86.2 84.9 86.1 85.3 24.8	5636	
15S/17E-35N02 M	182.0	10-23-68 11-20-68 12-23-68 1-20-69 2-19-69 3-25-69 4-24-69 5-23-69 6-25-69 7-30-69 8-18-69 9-16-69	95.0 94.2 88.0 94.0 90.2 85.9 75.2 63.3 63.3 68.0 70.0 66.0	87.0 87.8 88.0 88.0 91.8 96.1 106.8 113.7 118.5 118.0 112.0 116.0	5001	15S/20E-28A01 M	264.8	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	55.7 55.1 50.7 54.3 54.0 53.3 53.3 55.8 50.8 55.3 57.0 52.4	5636	
						15S/21E-15D01 M	301.2	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	32.6 31.4 31.2 30.8 30.2 29.7 29.1 29.1 29.4 26.8 27.2 28.3	5636	
						15S/22E-16A01 M	337.0	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69	28.8 28.9 28.3 28.9 28.7 28.3 27.3	308.2 308.1 308.7 308.9 308.3 308.7 309.7	5636

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT						ALTA IRRIGATION DISTRICT					
5-22-18						5-22-19					
15S/22E-16A01 M (Cont.)	337.0	5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	26.7 24.3 25.6 24.4 22.7	310.3 310.7 311.4 312.6 314.3	5636	15S/23E-23A02 M (Cont.)	358.0	6-27-69 7-30-69 8-28-69 9-27-69	30.2 27.3 26.0 27.8	327.8 332.7 332.0 330.2	5637
15S/22E-29D01 M	321.9	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	33.0 33.1 33.2 33.2 33.2 33.2 31.0 30.2 28.4 27.1 25.9 24.8	288.9 288.8 288.7 288.7 288.7 289.5 290.9 291.7 293.5 294.8 296.0 297.1	5636	15S/24E-22D01 M	388.0	10-31-68 11-29-68 12-10-68 2-05-69 3-00-69 3-31-69 5-01-69 5-29-69 6-28-69 7-31-69 8-29-69 9-29-69	45.0 44.4 43.8 NM-9 NM-9 14.6 13.6 10.1 8.4 7.2 6.8 9.8	343.0 343.6 344.2 NM-7 NM-9 373.4 374.4 377.9 379.6 380.3 381.2 378.2	5637
16S/19E-14A01 M	235.5	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	102.6 99.1 96.0 94.5 92.0 91.1 92.2 90.1 98.4 99.5 100.6 101.8	132.9 137.4 139.5 141.0 143.5 144.4 143.3 140.9 137.1 136.0 134.9 133.7	5636	16S/23E-23E01 M	314.0	10-29-68 11-26-68 12-27-68 2-04-69 3-00-69 3-27-69 4-29-69 5-27-69 6-26-69 7-29-69 8-27-69 9-26-69	28.7 28.4 28.5 27.5 NM-9 24.9 24.7 24.1 23.0 21.2 16.7 15.4	285.3 285.6 286.5 286.5 NM-9 289.2 289.3 289.9 290.3 292.8 297.3 298.6	5637
16S/20E-22N01 M	247.7	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	69.8 68.1 69.0 68.8 66.6 65.3 66.2 66.2 66.3 63.5 63.6 59.6	177.9 178.6 178.7 178.9 181.1 182.4 181.5 181.5 181.4 184.2 185.1 188.1	5636	16S/24E-21J01 M	336.0	10-28-68 11-22-68 12-26-68 2-03-69 3-00-69 3-26-69 4-28-69 5-26-69 6-25-69 7-28-69 8-26-69 9-25-69	30.6 39.0 38.6 37.7 NM-9 31.1 28.5 27.2 24.2 21.6 19.0 18.7	296.4 297.0 297.7 304.3 308.6 307.5 308.0 312.2 314.4 317.0 317.3	5637
16S/21E-22N01 M	271.0	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	59.8 49.3 48.8 47.1 46.3 45.3 44.1 45.1 46.8 47.4 47.8 46.6	220.2 221.7 222.2 223.9 224.9 225.7 226.9 224.9 224.2 223.6 223.2 224.4	5636	16S/25E-29A01 M	364.0	10-28-68 11-24-68 12-26-68 2-03-69 3-00-69 3-26-69 4-28-69 5-26-69 6-25-69 7-28-69 8-26-69 9-25-69	53.5 51.9 50.5 34.6 NM-9 22.8 21.5 18.4 18.4 14.4 11.3 18.7	310.6 312.4 313.5 329.4 NM-9 341.5 342.2 345.9 345.6 349.6 352.7	5637
16S/22E-23R01 M	297.5	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	27.3 27.6 27.6 27.6 27.6 27.5 27.5 23.5 22.3 21.3 20.6 20.3	270.2 269.9 269.9 269.9 269.9 270.0 274.4 275.2 276.2 276.9 277.2	5636	17S/22E-25A01 M	276.0	10-29-68 11-26-68 12-27-68 2-04-69 3-00-69 3-29-69 4-29-69 5-27-69 6-26-69 7-29-69 8-27-69 9-26-69	44.8 41.8 40.5 37.6 NM-9 34.1 34.4 37.1 38.6 43.8 44.8 37.2	231.2 234.2 235.5 238.4 NM-9 241.9 241.6 238.9 237.4 232.2 231.2 238.8	5637
17S/22E-03C01 M	286.0	10-01-68 11-01-68 12-04-68 12-31-68 1-31-69 2-27-69 4-01-69 5-01-69 6-02-69 7-01-69 8-01-69 9-02-69	27.0 26.6 26.2 25.6 22.6 22.6 19.9 18.3 16.6 15.1 14.5 13.1	259.0 259.4 259.8 260.4 263.4 263.4 265.1 267.7 269.4 270.9 271.5 272.9	5636	17S/22E-25J01 M	275.0	10-29-68 11-26-68 12-27-68 2-04-69 3-00-69 3-27-69 4-29-69 5-27-69 6-26-69 7-29-69 8-27-69 9-26-69	44.1 43.1 41.3 38.9 NM-9 35.9 35.1 36.3 37.4 42.5 43.3 37.5	230.9 231.9 233.7 236.1 NM-9 239.1 239.0 237.7 237.6 232.5 231.5 237.5	5637
ALTA IRRIGATION DISTRICT						LOWER KINGS RIVER AREA					
5-22-19						5-22-20					
14S/23E-36R01 M	391.0	10-30-68 11-27-68 12-30-68 2-05-69 3-00-69 3-28-69 4-30-69 5-28-69 6-27-69 7-30-69 8-29-69 9-27-69	63.9 62.2 61.9 58.9 NM-9 43.7 39.8 39.0 34.8 32.0 29.0 32.6	327.1 328.8 329.1 332.1 NM-9 347.3 351.2 352.0 356.2 362.0 362.0 358.4	5637	17S/24E-15A03 M	302.0	10-23-68 11-27-68 12-23-68 1-23-69 2-00-69	30.7 29.9 29.4 24.9 NM-0	271.3 272.1 272.6 277.1	5001
17S/25E-10C01 M	335.0	3-26-69	33.7	301.3	5637	17S/25E-18R01 M	321.0	3-26-69	62.4	258.6	5637
14S/24E-31P01 M	395.0	3-28-69	42.3	352.7	5001	17S/19E-14J01 M	217.0	3-12-69	NM-9	5050	5050
15S/23E-23A02 M	358.0	10-30-68 11-27-68 12-30-68 2-05-69 3-00-69 3-28-69 4-30-69 5-28-69	53.4 52.2 51.5 48.3 NM-9 40.2 37.2 34.3	304.6 305.8 306.5 309.7 NM-9 317.8 320.8 323.7	5637	17S/20E-20D01 M	223.0	11-06-68 12-11-68 1-02-69 1-30-69 3-01-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	72.1 70.0 66.5 NM-7 66.5 65.0 62.0 66.5 64.3 64.2 63.5	150.9 153.0 156.4 NM-7 156.5 158.0 161.0 165.6 158.7 158.5 159.2	5050

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA				
LOWER KINGS RIVER AREA (Cont.)						STONE CORRAL IRRIGATION DISTRICT									
			5-22-20							5-22-22					
17S/21E-11K01 M	257.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	43.2 41.2 39.0 36.8 NN-9 NN-9 21.3 37.0 NN-1 NN-1 NN-1 NN-1	213.8 215.8 218.0 220.2	5050	17S/26E-07R01 M (Cont.)	364.0	1-22-69 2-26-69 3-26-69 4-24-69 5-28-69 6-20-69 7-30-69 8-20-69 9-24-69	8.0 3.1 2.1 2.0 4.3 4.7 5.7 5.6 6.0	356.0 360.9 361.9 362.0 359.7 359.3 358.3 358.4 358.0	5001				
18S/19E-35J02 M						IVANHOE IRRIGATION DISTRICT									
			5-22-23												
18S/19E-35J02 M	211.0	3-13-69	148.5	62.5	5050	17S/25E-27R01 M	350.0	3-03-69	84.9	264.1	5001				
18S/20E-16A01 M	230.0	3-14-69	6.5	233.5	5050	17S/25E-35M01 M	349.0	10-01-68 11-01-68 12-01-68 1-08-69 2-03-69 3-03-69 4-03-69 5-02-69 6-03-69 7-02-69 8-06-69 9-01-69	NW-1 81.5 80.7 79.6 79.9 77.0 74.6 71.5 NN-1 NN-9 NN-1 74.9	321.0 267.5 268.3 259.4 269.1 272.0 274.4 277.5	5001				
18S/21E-10R01 M	254.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	65.0 75.0 63.0 60.5 59.0 57.5 58.8 57.7 62.2 68.0 67.5 68.5	189.0 179.0 191.0 193.5 195.0 196.5 198.2 196.3 191.8 185.0 186.5 185.5	5050	17S/25E-36R01 M	365.0	10-01-68 11-01-68 12-01-68 1-08-69 2-03-69 3-03-69 4-03-69 5-02-69 6-03-69 7-02-69 8-06-69 9-01-69	79.0 75.9 74.2 74.0 72.6 71.0 69.5 66.7 66.0 64.8 66.7 66.0	286.0 289.1 290.8 291.0 292.4 294.0 295.2 298.3 300.0 298.3 299.0	5001				
19S/19E-25A01 M	208.0	3-14-69	5.7	202.3	5050	17S/26E-32R01 M	385.0	10-01-68 11-01-68 12-01-68 1-08-69 2-03-69 3-03-69 4-03-69 5-02-69 6-03-69 7-02-69 8-06-69 9-01-69	67.2 66.1 64.0 64.1 62.9 61.0 59.2 57.2 58.0 64.8 66.7 66.0	317.8 318.9 320.0 320.9 322.1 324.0 325.8 327.8 327.0 300.2 298.3 299.0	5001				
20S/22E-19M02 M	211.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	26.5 26.0 25.5 25.6 24.9 26.0 22.3 21.9 20.5 20.0 19.5 18.3	184.5 185.0 185.5 185.4 186.1 185.0 188.7 189.1 190.5 191.0 191.5 192.7	5050	ORANGE COVE IRRIGATION DISTRICT									
			5-22-21												
14S/24E-29C02 M	430.5	10-02-68 11-01-68 12-04-68 1-08-69 2-03-69 3-03-69 3-26-69 5-01-69 6-03-69 7-02-69 8-04-69 9-05-69	NN-1 41.0 41.2 NN-7 NN-1 29.3 30.7 30.9 37.3 NN-1 NN-1 34.1	389.5 389.9 390.4 401.2 401.2 399.8 399.6 393.2	5001	17S/26E-34D01 M	416.0	10-01-68 11-01-68 12-01-68 1-08-69 2-03-69 3-03-69 NN-1 8-05-69 9-01-69	59.2 58.8 57.3 57.1 55.7 54.0 51.9 49.0 48.0 53.7 51.8 52.8	356.8 357.2 358.5 358.9 360.3 362.0 364.1 364.0 368.0 362.3 364.2 363.2	5001				
14S/25E-30D01 M	510.0	2-06-69	28.4	481.6	5001	KAIBAH DELTA WATER CONSERVATION DISTRICT									
15S/24E-14D01 M	405.0	10-02-68 11-01-68 12-04-68 1-08-69 2-03-69 3-03-69 4-01-69 5-02-69 6-03-69 7-02-69 8-04-69 9-05-69	21.0 20.7 20.3 19.3 15.9 1.8 2.3 2.3 3.7 6.4 6.5 10.8	384.0 384.3 384.7 387.0 397.8 403.2 402.7 402.7 401.3 399.6 398.5 394.2	5001				5-22-24						
16S/25E-04C02 M	415.0	10-04-68 11-01-68 12-04-68 1-08-69 2-03-69 3-04-69 4-01-69 5-02-69 6-03-69 7-02-69 8-05-69 9-08-69	11.9 13.5 14.5 13.9 10.2 14.9 5.2 5.3 4.7 6.1 6.4 6.7	403.1 401.5 400.5 401.1 404.8 410.1 409.8 409.7 409.5 408.9 408.6 408.3	5001	17S/26E-17F02 M	385.0	2-06-69	13.8	371.2	5001				
STONE CORRAL IRRIGATION DISTRICT						17S/27E-34P01 M	473.0	2-06-69	10.6	462.4	5001				
			5-22-22							18S/22E-29A01 M	251.0	2-04-69	87.1	163.9	5001
16S/26E-32R01 M	405.0	10-23-68 11-27-68 12-23-68 1-22-69 2-26-69 3-26-69 4-24-69 5-28-69 6-20-69 7-30-69 8-20-69 9-24-69	3.4 3.1 3.1 0.1 0.0 1.1 1.6 2.7 2.3 4.0 4.0 NM-6	401.6 401.9 401.9 404.9 405.0 403.9 403.4 402.3 402.7 409.5 408.9 408.3	5001	18S/23E-12H01 M	282.5	10-23-68 11-28-68 12-27-68 1-28-69 3-03-69 3-31-69 5-05-69 5-28-69 7-02-69 7-30-69 8-27-69 9-25-69	62.4 58.1 55.3 29.9 29.0 48.3 47.4 49.9 51.5 52.7 54.2 51.5	290.1 284.4 287.2 289.6 292.0 234.2 235.1 233.3 231.0 229.8 228.3 231.0	5001				
17S/25E-01D01 M	355.0	9-24-69	22.0	333.0	5001	18S/23E-34A01 M	271.0	10-12-68 2-17-69	107.7 97.1	163.3 173.9	5001				
17S/26E-07R01 M	364.0	10-23-68 11-27-68 12-23-68	11.9 9.0 9.0	352.1 355.0 355.0	5001	18S/24E-26A01 M	312.5	2-19-69	57.6	254.9	5001				

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EXETER IRRIGATION DISTRICT						LINDMORE IRRIGATION DISTRICT					
			5-22-26						5-22-28		
19S/26E-14E01 M (Cont.)	375.0	3-26-69 4-24-69 5-28-69 6-20-69 7-30-69 8-20-69 9-24-69	75.0 73.2 NM-1 74.0 72.2 71.2 70.0	300.0 301.8 301.0 302.8 303.8 305.0	5001	20S/27E-20E01 M (Cont.)	392.0	3-26-69 4-24-69 5-28-69 6-19-69 7-30-69 8-20-69 9-24-69	34.9 33.4 34.1 34.1 32.0 32.5 32.0	357.1 358.6 357.9 357.9 360.0 359.5 360.0	5001
19S/26E-23E01 M	359.0	2-04-69	82.4	276.6	5001	PORTERVILLE IRRIGATION DISTRICT					
									5-22-29		
LINDSAY-STRATHMORE IRRIGATION DISTRICT						21S/26E-12A01 M					
			5-22-27				372.0	10-22-68 11-22-68 12-23-68 2-03-69 2-20-69 3-24-69 4-23-69 5-22-69 6-23-69 7-21-69 8-26-69 9-30-69	58.1 51.0 49.4 46.3 45.0 44.3 47.8 47.7 48.5 47.7 47.0 42.0	313.9 321.0 322.6 325.7 327.0 327.7 324.2 324.3 323.5 323.5 324.3 325.8	5608
19S/27E-20D01 M	385.0	2-10-69	58.5	326.5	5001	21S/27E-21C01 M	409.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-24-69	22.5 26.5 22.4 22.5 22.5 19.2 17.9 17.5 17.1 16.7 17.5 17.0	386.5 386.6 386.5 386.5 386.5 389.8 391.1 390.5 391.9 392.3 391.5 392.0	5001
20S/27E-06B01 M	372.0	10-23-68 11-27-68 12-23-68 1-21-69 2-24-69 3-25-69 4-24-69 5-28-69 6-20-69 7-30-69 8-20-69 9-24-69	55.6 56.4 51.4 51.3 55.4 50.6 48.7 46.5 45.4 44.5 44.0	316.4 315.6 320.6 314.5 316.6 321.4 323.3 325.5 326.6 327.5 328.0	5001	21S/27E-28E01 M	420.0	10-22-68 11-22-68 12-23-68 1-23-69 2-20-69 3-24-69 4-23-69 5-22-69 6-23-69 7-21-69 8-26-69 9-30-69	21.8 22.3 22.5 22.5 20.8 17.8 14.6 15.3 10.1 8.2 12.5 16.5	398.2 397.7 397.5 397.7 399.2 402.2 405.4 407.5 409.9 411.8 407.5 405.3	5001
20S/27E-16A01 M	426.0	10-22-68 11-27-68 12-20-68 1-21-69 2-20-69 3-26-69 4-24-69 5-28-69 6-19-69 7-30-69 8-20-69 9-24-69	34.0 33.2 32.0 35.3 33.4 21.0 20.9 21.6 22.3 22.1 22.8 23.6	392.0 392.8 353.2 390.7 392.6 405.0 406.1 404.4 403.7 403.9 403.2 402.4	5001	22S/26E-01J01 M	395.0	10-22-68 11-22-68 12-23-68 1-23-69 2-20-69 3-24-69 4-23-69 5-22-69 6-23-69 7-21-69 8-26-69 9-30-69	81.3 75.4 79.0 78.0 77.2 77.4 75.7 78.0 76.3 84.7 77.4 79.3	313.7 319.6 316.0 317.0 317.8 317.6 319.3 317.0 318.7 310.3 317.6 315.7	5608
20S/27E-21P01 M	414.0	2-10-69	31.9	382.1	5001	22S/27E-06D01 M	397.0	10-22-68 11-22-68 12-23-68 2-03-69 2-20-69 3-24-69 4-23-69 5-22-69 6-23-69 7-21-69 8-26-69 9-29-69	59.4 58.4 58.4 57.0 57.1 55.9 56.2 54.6 54.1 53.1 54.6 54.1	337.6 338.6 338.6 340.0 339.9 341.1 340.8 342.4 342.9 343.9 342.4 342.9	5608
20S/27E-29J01 M	406.0	2-10-69	33.1	372.9	5001	22S/27E-10A01 M	455.0	10-22-68 11-22-68 12-23-68 2-03-69 2-20-69 3-24-69 4-23-69 5-22-69 6-23-69 7-21-69 8-26-69 9-29-69	77.7 74.7 73.8 71.5 70.2 68.2 67.8 67.8 66.1 64.9 54.6 54.1	377.3 380.3 381.2 383.5 384.8 386.8 387.2 387.2 383.7 380.6 389.6 381.6	5608
21S/27E-01A01 M	460.0	10-22-68 11-27-68 12-20-68 1-21-69 2-20-69 3-26-69 4-24-69 5-28-69 6-19-69 7-30-69 8-20-69 9-24-69	35.0 32.0 31.6 29.8 29.8 21.0 20.9 21.6 22.3 22.1 22.8 23.6	425.0 427.3 426.4 430.2 430.2 439.0 435.0 435.8 437.5 436.4 435.0	5001	22S/27E-10R01 M	467.0	2-03-69	112.0	355.0	5001
LINDMORE IRRIGATION DISTRICT						LOWER TULE RIVER IRRIGATION DISTRICT					
			5-22-28						5-22-30		
20S/26E-01P01 M	360.0	10-23-68 11-27-68 12-23-68 1-22-69 2-24-69 3-26-69 4-24-69 5-28-69 6-20-69 7-30-69 8-20-69 9-24-69	97.1 89.5 87.0 89.0 76.6 70.5 66.8 71.8 NM-1 72.5 74.5	268.9 271.5 273.0 278.0 283.4 289.5 293.2 288.2 287.8 285.5	5001	21S/23E-22J01 M	221.5	2-19-69	97.9	123.6	5001
20S/26E-22C02 M	341.0	2-05-69	99.3	241.7	5001	21S/24E-15H01 M	253.0	2-16-69	NM-7		5001
20S/26E-24N01 M	362.5	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-24-69	73.4 71.1 71.0 70.3 69.3 67.5 66.3 66.5 66.5 66.6 64.3 63.4	289.1 290.8 291.5 292.2 293.2 295.0 296.2 296.0 296.0 296.9 298.4 299.1	5001	21S/24E-31D01 M	230.0	11-04-68 11-29-68 1-04-69 2-00-69 3-04-69 4-02-69 5-01-69 6-03-69 6-24-69	88.4 84.3 88.1 NM-9 81.8 80.4 79.3 77.8 77.0	141.6 145.7 141.9 148.2 149.6 150.7 152.2 153.0	5001
20S/26E-32A01 M	331.5	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-24-69	105.9 102.0 101.5 96.7 95.4 94.3 95.0 95.0 94.3 101.2 99.2 99.5	225.6 229.5 230.0 234.8 235.9 237.2 236.5 236.5 236.0 230.3 231.7 232.0	5001	20S/27E-29E01 M	392.0	10-22-68 11-27-68 12-20-68 1-21-69 2-20-69	44.9 43.1 42.5 42.5 38.4	347.1 348.9 349.5 350.3 353.6	5001

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	
LOWER TULE RIVER IRRIGATION DISTRICT						VANDALIA IRRIGATION DISTRICT						
			5-22-30				5-22-31					
21S/24E-31D01 M (Cont.)	230.0	7-24-69 8-28-69	76.2 74.3	153.8 155.7	5001	22S/28E-18A01 M (Cont.)	535.0	5-26-69 6-19-69 7-29-69 8-19-69 9-23-69	126.7 121.0 131.8 141.8 137.5	409.3 414.0 403.2 393.2 397.5	5001	
21S/24E-35M01 M	251.0	11-04-68 11-29-68 1-04-69 2-00-69 3-04-69 4-02-69 5-01-69 6-03-69 6-24-69 7-24-69 8-28-69	88.1 87.0 86.3 NM-9 81.9 85.7 84.8 82.1 84.6 95.0 NM-9	162.9 164.0 164.7 169.1 167.3 166.2 168.9 168.9 166.4 166.0	5001	SAUCELITO IRRIGATION DISTRICT						
			5-22-32				5-22-32					
21S/25E-08H01 M	285.0	2-16-69	66.4	219.1	5001	22S/26E-15J01 M	371.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-24-69	139.2 133.4 131.5 128.8 127.7 125.4 128.6 126.8 NM-1 NM-1 130.9 137.5	231.8 237.6 239.5 242.2 243.3 245.6 242.4 244.2	5001	
21S/26E-06G02 M	322.0	11-04-68 1-04-69 2-00-69 3-04-69 4-03-69 5-01-69 6-03-69 6-26-69 7-25-69 8-29-69	77.7 74.9 72.3 NM-9 67.2 66.9 78.9 74.0 84.4 91.4 89.9	244.3 247.1 249.7 254.8 255.1 243.1 248.0 237.6 230.6 232.1	5001	22S/26E-32E01 M	339.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-24-69	212.8 210.6 206.1 202.7 NM-3 188.4 204.4 NM-1 NM-1 NM-8 NM-3 NM-0	126.2 128.4 132.9 136.3	5001	
21S/26E-10E01 M	350.0	11-04-68 11-29-68 1-04-69 2-00-69 3-06-69 4-03-69 5-01-69 6-03-69 6-26-69 7-25-69 8-29-69	55.6 57.8 50.6 NM-9 47.7 47.8 46.0 46.0 52.0 52.6	294.4 292.2 299.4 302.3 302.4 302.2 304.0 304.0 298.0 297.4	5001	23S/26E-02R01 M	397.0	2-04-69	163.0	234.0	5001	
22S/24E-09A01 M	245.0	11-04-68 11-29-68 1-04-69 2-00-69 3-06-69 4-03-69 5-01-69 6-03-69 6-24-69 7-24-69 8-28-69	119.6 118.0 117.0 NM-9 118.1 117.7 115.7 114.6 114.4 114.0 113.3	125.4 127.0 127.9 126.9 129.5 129.3 130.4 130.6 131.0 131.7	5001	23S/26E-03R01 M	381.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-18-69 7-29-69 8-19-69 9-23-69	190.9 179.9 176.9 173.2 172.0 171.6 170.8 172.9 175.9 NM-1 NM-1 176.0	190.1 200.0 204.1 207.8 209.0 209.4 210.2 205.1 205.1	5001	
22S/24E-15A01 M	251.5	2-12-69	130.6	120.9	5001	PIXLEY IRRIGATION DISTRICT						
22S/25E-10E01 M	296.0	11-04-68 11-29-68 1-04-69 2-00-69 3-06-69 4-02-69 5-01-69 6-03-69 6-24-69 7-24-69 8-29-69	103.2 102.8 101.7 NM-9 101.4 100.5 99.8 96.2 101.3 99.6 99.5	192.8 193.8 194.3 194.6 196.2 199.8 196.2 194.7 196.4 196.4 196.5	5001	22S/25E-25N01 M	310.0	10-22-68 11-26-68 12-19-68 1-20-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-22-69	206.0 197.1 192.2 188.0 189.0 178.1 188.0 191.2 203.6 214.8 214.2 198.0	104.0 112.9 117.8 122.0 128.0 131.9 122.0 118.8 106.4 95.2 95.8 112.0	5001	
22S/25E-15A01 M	300.5	3-01-69	127.3	173.2	5001	23S/23E-02B01 M	207.0	2-04-69	38.3	168.7	5001	
22S/26E-06A01 M	337.0	2-03-69	117.0	220.0	5001	23S/24E-16R01 M	222.0	10-21-68 12-19-68 1-20-69 2-19-69 3-24-69 4-22-69 5-27-69 6-18-69 7-28-69 8-18-69 9-22-69	136.6 132.8 129.7 126.7 124.7 122.7 122.3 123.6 126.0 124.9 131.0 131.5	85.4 89.2 92.3 95.3 97.1 99.3 99.7 98.4 96.0 97.1 91.0 90.5	5001	
VANDALIA IRRIGATION DISTRICT						VANDALIA IRRIGATION DISTRICT						
			5-22-31				5-22-31					
22S/28E-07Q01 M	524.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-23-69	133.6 130.0 126.7 126.2 125.9 125.8 122.9 NM-1 NM-1 NM-7 NM-1 NM-1	390.4 394.0 397.3 397.8 398.1 398.2 401.1	5001	23S/25E-14C01 M	300.0	1-31-69	56.6	243.4	5001	
22S/28E-17N01 M	577.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-23-69	155.0 148.8 139.5 131.4 127.3 120.7 116.6 122.0 127.2 155.1 161.6 163.6	422.0 428.2 437.5 445.6 449.7 456.3 460.4 455.0 449.8 421.9 415.4 404.0	5001	23S/25E-16N04 M	263.0	10-23-68 11-20-68 12-17-68 1-15-69 2-13-69 3-12-69 4-05-69 5-07-69 6-26-69 7-28-69 8-25-69 9-23-69	90.2 88.7 87.9 87.3 86.6 86.3 86.4 86.8 86.7 86.0 85.2 83.4	172.8 174.3 175.1 175.7 176.4 176.6 176.6 176.2 176.3 177.8 179.6	5001	
22S/28E-18A01 M	535.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69	126.5 118.0 114.0 112.1 109.9 112.1 106.8	408.5 417.0 420.0 425.1 422.9 423.2	5001	23S/26E-08R01 M	345.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-25-69 4-23-69 5-26-69 6-19-69 7-29-69 8-19-69 9-23-69	190.7 186.5 183.7 180.1 177.8 175.3 174.4 174.4 176.3 180.3 182.0 179.0	154.3 158.5 161.3 164.9 167.2 167.7 170.6 170.6 168.7 164.7 163.0 166.0	5001	

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

WELL NO.	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALFAUGH-ALLENSWORTH AREA					
23S/23E-28L01 M	196.0	10-21-68 11-25-68 12-19-68 1-20-69 2-13-69 3-28-69 4-22-69 5-21-69 6-13-69 7-28-69 8-13-69	107.9 100.7 89.7 85.6 77.3 NM-7 NM-0 NM-0 NM-0 NM-0 NM-0	88.1 95.7 106.3 115.4 118.2	5001
23S/24E-35A02 M	235.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-28-69 4-22-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	210.2 180.8 156.5 147.6 135.0 130.5 134.7 160.9 164.9 180.1 187.1 181.7	24.8 54.2 78.5 87.4 97.0 104.5 100.3 74.1 70.1 54.9 47.9 53.3	5001
24S/23E-05R02 M	210.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-29-69 4-22-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	239.7 235.0 226.7 204.5 209.7 174.3 176.2 NM-1 NM-1 NM-1 NM-1 231.7	-29.3 -25.8 -16.7 5.5 7.3 35.7 33.8 -13.7 -13.7 -21.7	5001
24S/23E-21B02 M	205.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-24-69 4-22-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	139.8 144.9 65.2 63.1 81.7 NM-9 66.0 70.5 68.5 63.3 68.2 68.0	139.8 140.1 139.8 141.9 146.3 139.0 134.5 136.5 136.7 136.8 137.0	5001
24S/23E-34R01 M	206.0	1-31-69	198.2	7.8	5001
24S/24E-20R01 M	218.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-24-69 4-22-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	230.0 201.7 187.9 167.5 169.3 154.3 163.6 171.9 134.0 207.9 226.7 228.0	-12.0 16.3 30.1 50.5 55.7 65.7 49.4 46.1 24.0 10.1 -3.6 -11.0	5001
24S/24E-22R01 M	233.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-25-69 4-22-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	203.4 178.8 166.5 149.5 135.0 126.4 133.7 152.7 167.0 193.1 220.7 210.4	29.6 54.2 66.5 83.5 94.4 106.6 99.3 80.3 66.0 34.9 12.3 22.6	5001
24S/24E-23Q01 M	235.0	1-31-69	35.5	199.5	5001
24S/24E-34P01 M	232.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-24-69 4-22-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	84.2 80.0 86.7 NM-9 NM-6 80.0 80.4 85.0 87.4 95.1 95.8 95.4	137.8 141.0 145.3 152.0 147.0 148.6 151.6 147.0 148.6 136.9 136.6 136.6	5001
24S/25E-17P01 M	268.0	10-21-68 11-25-68 12-19-68 1-20-69 2-19-69 3-24-69 4-23-69 5-27-69 6-13-69 7-28-69 8-13-69 9-22-69	129.8 110.5 105.8 99.7 95.7 93.9 105.8 113.4 114.1 126.4 140.4 121.5	138.2 157.7 162.2 163.3 172.3 174.1 162.2 154.3 153.9 141.6 140.4 146.5	5001
DELANO-EARLEHART IRRIGATION DIST.					
23S/25E-27J02 M	296.0	1-29-69	92.0	204.0	5001
23S/26E-29P01 M	356.5	1-31-69	176.5	180.0	5001
23S/27E-27Q01 M	552.0	2-05-69	373.0	179.0	5001
24S/25E-02H01 M	21.0	10-21-68 11-26-68 12-13-68 1-20-69 2-19-69 3-26-69 4-23-69 5-26-69 6-13-69 7-28-69 8-13-69 9-22-69	101.6 102.0 101.5 100.0 99.4 101.5 101.5 101.5 101.4 101.4 101.2	215.4 215.0 219.5 221.0 221.6 219.5 219.5 219.6 219.7 219.7 219.8	5001
24S/25E-10A01 M	304.0	1-29-69	118.0	186.0	5001
24S/25E-33J01 M	291.5	1-31-69	62.8	228.7	5001
24S/26E-05R01 M	376.0	1-27-69	170.0	206.0	5001
24S/26E-22C01 M	378.0	1-27-69	150.0	228.0	5001
24S/26E-29R02 M	400.0	10-16-68 11-13-68 12-13-68 1-15-69 2-11-69 3-15-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	147.1 140.6 136.5 NM-7 133.1 132.7 143.5 136.2 136.4 135.4 135.9 134.6	251.9 255.4 256.5 263.9 267.3 266.5 263.8 263.8 263.6 264.1 265.4	5000
24S/26E-32Q01 M	396.0	1-31-69	112.5	283.5	5001
24S/26E-34P01 M	445.0	10-23-68 11-20-68 12-16-68 1-15-69 2-13-69 3-13-69 4-10-69 5-09-69 6-06-69 7-29-69 8-26-69 9-22-69	247.8 233.6 227.9 221.7 216.6 213.2 210.8 212.6 217.8 227.8 227.7 222.2	107.2 211.4 217.1 223.3 228.4 231.8 234.2 232.4 227.2 217.3 222.2	5000
24S/27E-32X01 M	540.0	2-03-69 9-21-69	425.5 509.5	114.5 30.5	5001
25S/26E-10B03 M	430.0	1-31-69	196.5	233.5	5001
25S/26E-16P01 M	383.0	10-16-68 11-18-68 12-13-68 1-15-69 2-11-69 3-20-69 4-23-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	86.3 86.0 88.9 NM-7 NM-7 97.1 99.2 97.1 92.9 92.0 98.5 86.1	301.7 302.0 299.1 304.5 300.3 283.8 290.9 295.1 296.0 296.5 301.9	5000
25S/27E-22H01 M	750.0	1-30-69	416.9	333.1	5001
SOUTHERN SAN JOAQUIN MUD					
25S/24E-12A02 M	253.0	10-16-68 11-14-68 12-13-68 1-15-69 2-12-69 3-20-69 4-28-69 5-23-69 6-24-69 7-28-69 8-27-69 9-22-69	90.2 80.4 76.7 NM-7 NM-7 69.1 42.8 NM-1 90.5 90.5 92.0 99.8	162.8 172.6 176.3 181.8 187.9 176.2 NM-1 162.5 153.2	5000
25S/25E-36R02 M	259.0	1-27-69	NM-7	166.0	5001
25S/26E-28B01 M	394.0	10-16-68 11-13-68 12-13-68 1-15-69 2-12-69 3-20-69 4-23-69 5-21-69 6-23-69 7-28-69 8-27-69 9-22-69	145.4 145.8 140.7 NM-7 NM-7 NM-7 NM-0 147.8 149.8 151.2 153.5	248.6 248.2 253.3	5000

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

WELL NUMBER	WELL DEPTH IN FEET	DATE	GROUND WATER LEVEL IN FEET	BATHY. ELEVATION IN FEET	AGENCY USE ONLY	WELL NUMBER	WELL DEPTH IN FEET	DATE	GROUND WATER LEVEL IN FEET	BATHY. ELEVATION IN FEET	AGENCY USE ONLY	
SOUTHERN SAN JOAQUIN MUD (Supt.)						KERN RIVER DELTA AREA						
4-22-36						4-22-40						
25S/26E-25H02	M 414.0	1-29-69	164.0	250.0	5001	28S/26E-29L01	M 349.0	1-07-69	159.1	189.9	5700	
26S/26E-11F01	M 443.0	1-29-69	291.1	151.9	5001	29S/25E-12M03	M 330.0	10-16-68 11-13-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	163.7 164.8 162.7 161.3 161.3 163.8 166.3 165.2 167.3 170.2 163.8 170.8 175.9 175.9 150.3 150.5			5700
NORTH KERN WATER STORAGE DIST.												
5-22-37												
26S/25E-15P01	M 346.7	10-16-68 11-18-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	236.0 236.0 207.0 NM-7 192.0 174.0 195.0 NM-1 203.0 NM-1 200.0 NM-1	110.7 110.7 139.7 NM-7 154.7 172.7 150.7 143.7 146.7	5000	21S/27E-33D01	M 380.0	10-16-68 11-18-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-23-69	98.8 98.9 99.8 NM-7 100.7 91.4 83.0 84.5 78.4 72.2 61.3 57.7	281.2 281.2 282.2 NM-7 279.3 290.2 290.0 307.8 307.8 32.3		5000
26S/25E-15R01	M 352.3	1-29-69	130.6	171.7	5700	30S/25E-17E01	M 300.6	9-05-69	73.7	227.0	5640	
26S/26E-30P01	M 392.0	1-21-69	233.0	159.0	5700	30S/25E-22D01	M 308.5	10-01-68 11-02-68 12-02-68 1-02-69 1-31-69 3-04-69 4-01-69	70.1 69.3 60.2 70.1 71.6 70.8 NM-0	238.4 239.2 248.3 238.4 236.9 237.7		5700
27S/25E-01N01	M 394.0	10-16-68 11-18-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-01-69	117.4 110.8 121.5 NM-7 123.6 111.8 120.3 120.9 93.1 93.8 90.9 NM-0	276.6 274.2 272.5 NM-7 270.5 275.2 273.7 273.1 295.9 300.2 303.1	5000	30S/26E-16J01	M 339.1	2-04-69	NM-0			5121
27S/25E-01N03	M 394.0	7-23-69 8-27-69 9-22-69	275.2 270.9 275.8	118.8 124.0 118.2	5000	30S/26E-22P02	M 338.0	10-16-68 11-18-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	92.2 83.3 87.6 NM-7 86.9 92.4 95.1 NM-7 93.7 94.9 92.8 81.2	245.8 249.7 250.4 NM-7 251.1 245.6 241.9 244.3 243.1 245.2 256.8		5000
27S/26E-06H02	M 416.0	1-30-69	337.4	78.6	5001	30S/28E-32E01	M 354.4	1-29-69	115.3	239.1	5001	
27S/26E-20E01	M 435.7	2-05-69	282.6	153.1	5700	30S/28E-34R02	M 359.0	10-16-68 11-18-68 12-19-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	99.2 96.7 96.0 NM-7 96.9 97.4 96.0 NM-7 94.5 98.8 100.0 101.5 103.0 100.6	259.8 262.3 263.0 NM-7 264.5 264.2 262.1 262.2 259.0 257.5 256.0 258.4		5000
28S/25E-13L01	M 361.1	1-26-69	181.1	180.0	5700	31S/26E-01A01	M 333.0	2-03-69	NM-0			5121
28S/26E-21H01	M 388.0	10-16-68 11-18-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-01-69	178.4 177.1 165.3 NM-7 165.1 178.0 170.5 166.9 156.7 154.0 151.4 NM-0	209.6 210.9 202.7 NM-7 222.9 210.0 217.5 221.1 229.3 234.0 236.6	5000	31S/26E-35D01	M 294.5	2-03-69	61.2	233.3	5121	
28S/26E-21H03	M 388.0	7-23-69 8-27-69 9-22-69	268.8 263.7 251.3	119.2 124.3 136.7	5000	31S/27E-04L01	M 341.1	2-06-69	116.6	224.5	5700	
SHAPTER-WASCO IRRIGATION DIST.												
5-22-38												
27S/24E-01L02	M 322.0	4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	231.8 248.6 264.4 270.4 283.9 258.4	90.2 73.4 57.6 47.6 38.1 63.6	5000	31S/27E-28J01	M 312.1	2-03-69	78.5	233.6	5121	
27S/24E-35C01	M 316.0	1-31-69	207.8	108.2	5700	31S/28E-30M01	M 314.7	2-06-69	69.0	245.7	5700	
27S/25E-28A01	M 375.0	10-16-68 11-18-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	255.4 231.0 237.5 NM-7 228.0 219.8 238.4 259.7 264.9 231.0 NM-1 231.0 NM-1	119.6 145.0 137.5 NM-7 147.0 155.2 136.6 115.3 144.0	5000	32S/26E-36G01	M 378.0	1-26-69	NM-9			5121
28S/25E-16P01	M 329.0	10-16-68 11-19-68 12-10-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	197.8 198.6 197.7 NM-7 191.6 191.8 193.3 197.4 196.6 209.9 204.8 199.3	131.2 130.4 131.3 NM-7 137.4 137.2 135.7 131.6 132.4 118.1 124.2 129.7	5000	32S/27E-18E01	M 292.6	2-07-69	103.3	189.3	5700	
						EDISON-MARICOPA AREA						
						5-22-41						
28S/29E-33N01	M 578.0	1-20-69	445.1	132.9	5644	29S/29E-02R01	M 410.0	1-30-69	214.0	196.0	5001	
30S/28E-02R01	M 410.0	1-30-69	214.0	196.0	5001	30S/25E-10N01	M 372.0	10-16-68 11-18-68 12-18-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-23-69	54.1 53.8 53.0 NM-7 53.2 52.2 50.4 49.1 50.4 41.3 42.2 49.8	317.0 318.2 319.0 NM-7 315.8 310.7 327.4 321.1 331.1 322.2		5000

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EDISON-MARIICOPA AREA (Cont.)					
30S/28E-10N04 M	372.0	10-16-68 11-15-68 12-10-68 1-15-69 2-11-69 3-20-69 4-23-69 5-21-69 6-25-69 7-29-69 8-28-69 9-23-69	185.9 183.5 178.9 NM-7 175.0 177.8 183.3 184.2 184.9 188.5 189.1 189.8	186.1 183.5 193.1 196.2 197.0 194.2 194.2 197.8 193.5 192.6 192.2	5000
30S/29E-05P01 M	515.0	1-20-69	NM-0		5644
30S/29E-26A01 M	628.0	1-23-69	473.9	149.1	5644
30S/30E-20R01 M	791.5	1-21-69	198.5	593.0	5644
31S/29E-09A01 M	468.0	1-24-69	367.9	100.1	5644
31S/29E-29A01 M	400.0	1-28-69	144.0	256.0	5001
31S/30E-21O01 M	536.0	1-29-69	367.5	168.5	5644
32S/25E-35N02 M	442.5	1-23-69	156.0	286.5	5121
32S/28E-23R01 M	386.7	1-33-69	280.5	106.2	5644
32S/29E-19R02 M	416.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	193.0 203.0 203.5 NM-7 203.0 203.2 204.0 203.6 202.4 202.4 202.8 202.8	223.0 213.0 212.5 213.0 213.0 212.8 214.9 212.4 213.6 213.4 213.6 213.2	5000
32S/29E-19R03 M	416.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	336.0 320.5 324.3 NM-7 308.5 313.8 334.4 357.4 359.3 360.7 362.6 329.6	80.0 95.5 91.7 107.5 102.8 77.8 58.6 56.7 55.3 53.4 53.4 86.4	5000
11N/18W-13H01 S	726.0	2-05-69 9-00-69	508.0 501.3	224.7	5644
11N/15W-28D01 S	850.0	1-31-69	NM-0		5644
11N/19W-04R01 S	575.9	2-04-69	422.0	153.9	5644
11N/19W-07R01 S	673.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	507.3 504.0 505.0 NM-7 505.1 507.0 505.1 511.2 511.4 510.9 509.1 513.3	165.7 165.0 167.0 163.2 166.0 161.8 161.6 162.1 163.9 159.7	5000
11N/20W-07C01 S	452.3	1-17-69	347.9	104.4	5700
11N/20W-13P01 S	484.7	2-04-69	NM-0		5644
11N/20W-24A01 S	730.2	2-13-69	551.6	178.6	5700
11N/21W-06M01 S	515.9	1-20-69	507.0	9.9	5700
11N/22W-04H01 S	529.0	2-12-69	468.3	60.7	5700
12N/20W-31R01 S	363.0	2-04-69	NM-0		5644
12N/21W-29N01 S	423.3	1-20-69	322.0	101.3	5121
12N/23W-28P01 S	498.0	1-20-69	278.0	220.0	5121
BUENA VISTA WATER STORAGE DIST.					
25S/22E-21P02 M	240.0	2-11-69	18.0	222.0	5121
27S/22E-32H01 M	241.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	134.4 130.7 129.4 NM-7 123.8 119.4 117.2 118.2 123.3 122.2 123.3 117.7 115.9 121.0 121.0 122.1	106.6 110.3 111.6 106.6 117.2 121.6 123.3 122.2 117.7 121.1 117.0 122.9	5000
BUENA VISTA WATER STORAGE DISTRICT (Cont.)					
28S/22E-10D02 M	245.0	2-11-69	NM-1		5121
28S/23E-31R01 M	257.8	1-31-69	25.9	231.9	5640
29S/23E-08A01 M	260.3	1-31-69	30.3	230.0	5640
29S/23E-25J01 M	275.0	10-30-68 12-02-68 1-06-69 2-05-69 3-07-69 3-27-69 5-20-69 5-20-69 6-04-69 8-05-69 9-05-69	68.5 66.4 71.6 NM-0 66.5 65.5 65.5 65.5 65.5 63.7	206.5 208.6 203.4 205.5 208.5 210.5 205.5 205.5 206.5 206.0 211.3	5050
29S/23E-27M01 M	270.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	41.6 44.0 44.0 NM-7 44.3 41.6 39.2 35.6 36.1 34.6 33.2 31.7	223.4 226.0 225.7 225.7 228.4 232.8 231.4 233.9 236.8 238.3	5000
30S/23E-01D01 M	276.8	1-31-69	59.8	217.0	5640
30S/24E-02C01 M	287.0	1-31-69	95.7	201.3	5640
30S/24E-04C01 M	282.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	75.1 70.9 71.7 NM-7 77.1 71.2 69.4 73.5 69.0 68.2 66.9 64.7	207.9 211.1 200.3 204.9 218.0 212.8 208.5 210.4 213.8 215.2 217.3	5000
31S/25E-27P01 M	283.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-22-69 6-25-69 7-29-69 8-23-69 9-23-69	NM-7 40.9 39.0 NM-7 29.1 26.1 NM-9 23.7 23.6 NM-7 29.5 23.9	282.1 244.0 253.9 256.9 259.3 259.4 260.5 261.1	5000
SEMITROPIC WATER STORAGE DISTRICT					
25S/22E-02N02 M	212.0	10-16-68 11-19-68 12-19-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-23-69 8-27-69 9-22-69	89.0 81.0 79.2 NM-7 76.8 72.1 67.8 67.9 71.0 65.1 77.2 75.8	130.0 131.0 132.8 137.2 139.9 144.2 144.2 141.0 146.9 134.3 133.2	5000
25S/22E-14Q01 M	215.0	4-01-69	152.5	62.5	5121
25S/23E-28D01 M	217.0	10-16-68 11-19-68 12-19-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-23-69 8-27-69 9-22-69	105.4 109.5 101.5 NM-7 101.5 93.0 93.9 95.6 96.9 95.8 92.2 92.3	108.6 110.5 115.5 124.0 124.0 120.4 123.2 120.4 120.1 118.2 118.3 114.7	5000
25S/23E-18D03 M	217.0	10-16-68 11-19-68	260.8 236.4	83.2 -19.5	5000

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

WELL NO. & NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	WATER SURFACE TO WATER ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLY NO. DATA	WELL NO. & NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	WATER SURFACE TO WATER ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLY NO. DATA
SEMITRICK WATER STORAGE DISTRICT						AVENAL-MCKITTRICK AREA					
25S/23E-26D03 M (Cont.)	217.0	12-18-68 1-15-69 2-12-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	205.0 NM-7 155.6 161.2 175.4 213.4 233.9 250.2 248.8	12.0 5000 61.4 55.8 41.6 7.6 -16.9 -33.2 -31.8		23S/18E-29E02 M	560.0	10-17-68 11-14-68 12-19-68 1-14-69 2-13-69 3-21-69 4-20-69 5-22-69 6-25-69 7-29-69 8-28-69 9-23-69	126.4 130.5 177.5 NM-7 137.7 146.8 137.2 142.8 138.8 138.0 139.5 139.7	423.6 423.5 422.5 422.3 422.8 421.2 422.0 421.5 420.3	5000
25S/24E-10K01 M	240.0	1-30-69 9-22-69	61.5 71.1	178.5 170.9	5001	23S/19E-26M01 M	267.0	10-30-68 12-02-68 1-06-69 2-03-69 3-07-69 3-26-69 5-20-69 6-04-69 7-08-69 8-06-69 9-02-69	NM-1 74.0 67.5 NM-9 67.7 68.0 NM-9 66.9 NM-7 66.8	5050 193.0 195.5 199.3 199.0 200.1 200.2	
25S/24E-15H01 M	248.0	10-16-68 11-18-68 12-15-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	87.1 86.9 85.0 NM-7 84.0 84.4 84.1 83.8 84.4 84.6 84.6 84.5	160.9 161.1 163.0 164.0 163.6 163.9 164.2 163.4 163.4 163.4 163.5	5000	25S/19E-15G01 M	422.0	4-01-69	NM-9	5121	
25S/24E-30H01 M	237.4	1-30-69	179.7	57.7	5001	25S/19E-20Q02 M	480.0	10-17-68 11-19-68 12-19-68 1-15-69 2-12-69 3-21-69 4-29-69 5-29-69 6-25-69 7-29-69 8-28-69 9-23-69	133.6 132.1 131.6 NM-7 NM-1 NM-1 NM-1 148.3 125.1 129.5 130.0	5000 346.4 347.5 348.4	
26S/21E-14E01 M	244.0	10-17-68 11-19-68 12-19-68 1-15-69 2-13-69 3-21-69 4-23-69 5-22-69 6-25-69 7-29-69 8-28-69 9-23-69	35.8 35.8 35.9 NM-7 35.8 35.0 34.8 33.2 33.0 33.7 31.6 31.9	208.2 208.2 208.1 208.2 209.0 209.2 210.8 211.0 213.3 212.4 212.1	5000	26S/20E-04C01 M	268.0	4-01-69	NM-5	5121	
26S/21E-14J01 M	237.0	2-13-69	33.0	204.0	5121	26S/17E-13L02 M	910.0	3-31-69	NM-9	5121	
26S/22E-10Q02 M	225.0	10-16-68 11-18-68 12-18-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	NM-1 91.5 NM-7 75.4 158.6 161.3 66.0 66.6 67.9 71.3 73.8	133.5 149.6 158.6 161.3 159.0 158.4 157.1 153.7 151.2	5000	26S/18E-16H01 M	685.0	4-01-69	NM-0	5121	
26S/22E-35E01 M	253.0	4-01-69	102.0	151.0	5121	26S/18E-19B02 M	875.0	4-01-69	NM-9	5121	
26S/23E-02R01 M	234.9	4-01-69	NM-9	5121	26S/18E-27F01 M	730.0	4-01-69	NM-0	5121		
26S/24E-23H01 M	295.5	1-30-69	183.8	111.7	5700	26S/19E-12L01 M	530.0	4-01-69	NM-0	5121	
27S/23E-01R01 M	267.0	10-16-68 11-18-68 12-18-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	98.6 98.8 99.1 NM-7 93.5 93.4 94.2 97.0 96.0 96.9 96.9 97.4	168.4 168.2 167.9 173.5 173.6 172.8 170.0 171.0 170.1 170.1 169.6 169.6	5000	27S/18E-15R01 M	1280.0	4-01-69	NM-9	5121	
27S/23E-01R04 M	267.0	10-16-68 11-18-68 12-18-68 1-15-69 2-11-69 3-20-69 4-28-69 5-21-69 6-24-69 7-28-69 8-27-69 9-22-69	248.1 221.2 210.0 NM-7 194.1 197.0 218.4 230.2 259.1 273.3 277.3 NM-7	18.9 45.8 57.0 72.9 80.0 48.6 36.8 7.9 -4.3 -10.3	5000	28S/22E-20M01 M	290.0	10-30-68 12-02-68 1-08-69 2-05-69 3-07-69 3-26-69 5-06-69 6-04-69 7-08-69 8-09-69 9-02-69	56.8 56.1 NM-7 NM-7 NM-7 NM-1 59.5 69.3 65.5 68.0 68.8 62.6	5050 233.2 233.9 220.5 220.7 228.5 228.0 225.2 227.4	
27S/23E-01R05 M	267.0	8-27-69 9-22-69	270.9 251.6	-3.9 15.4	5000	28S/22E-20M01 M	290.0	10-30-68 12-02-68 1-06-69 2-03-69 3-07-69 3-26-69 5-06-69 6-04-69 7-08-69 8-09-69 9-02-69	56.8 56.1 NM-7 NM-7 NM-7 NM-1 59.5 69.3 65.5 68.0 68.8 62.6	5050 233.2 233.9 220.5 220.7 228.5 228.0 225.2 227.4	
27S/23E-06L01 M	258.0	4-01-69	NM-9	5121	28S/22E-20M01 M	290.0	10-30-68 12-02-68 1-06-69 2-03-69 3-07-69 3-26-69 5-06-69 6-04-69 7-08-69 8-09-69 9-02-69	56.8 56.1 NM-7 NM-7 NM-7 NM-1 59.5 69.3 65.5 68.0 68.8 62.6	5050 233.2 233.9 220.5 220.7 228.5 228.0 225.2 227.4		
28S/23E-11E01 M	255.0	10-02-68 11-01-68 12-02-68 1-03-69 1-31-69 3-04-69 4-01-69 5-02-69 6-03-69 7-01-69 8-06-69 9-03-69	35.5 34.1 35.6 34.2 34.6 33.8 36.2 34.7 33.6 31.8 37.0 37.2	219.5 220.9 219.4 220.8 220.4 221.2 218.8 220.3 221.4 223.2 218.0 217.8	5640	28S/22E-20M01 M	290.0	10-30-68 12-02-68 1-06-69 2-03-69 3-07-69 3-26-69 5-06-69 6-04-69 7-08-69 8-09-69 9-02-69	56.8 56.1 NM-7 NM-7 NM-7 NM-1 59.5 69.3 65.5 68.0 68.8 62.6	5050 233.2 233.9 220.5 220.7 228.5 228.0 225.2 227.4	
29S/24E-14R01 M	290.0	2-10-69	123.0	167.0	5121	24S/20E-21N02 M	233.0	10-30-68 12-02-68 1-08-69 2-05-69 3-07-69 3-26-69 5-06-69	20.4 21.3 20.1 20.9 20.2 20.9 20.4 20.5	5000 203.6 203.7 203.9 204.2 204.1 204.5	

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	WELL DEPTH TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SURVEYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	WELL DEPTH TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SURVEYING DATA
TULARE LAKE-LOST HILLS AREA						5-22-45					
24S/20E-21N02 M (Cont.)	233.0	6-04-69 7-08-69 8-05-69 9-03-69	28.9 28.7 NM-2 28.7	204.2 204.1 204.3	5000	21S/22E-27A01 M (Cont.)	196.0	6-10-69 7-03-69 8-04-69 8-29-69	16.0 16.5 15.3 15.0	189.0 179.5 180.7 191.0	5050
24S/21E-15J01 M	211.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69	21.5 21.6 21.5 21.3 NM-9 NM-9 NM-9 NM-9 NM-9	189.5 189.4 189.9 189.7	5050	22S/22E-01B02 M	201.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	18.5 15.4 16.4 18.0 18.7 18.1 18.2 14.5 NM-1 13.5 13.2 12.5	182.5 186.6 186.6 182.0 187.3 189.9 186.2 186.5 NM-1 187.5 187.8 189.5	5050
24S/21E-26R01 M	210.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69	20.8 21.0 20.8 20.8 NM-9 NM-9 NM-9 NM-9 NM-0	189.2 189.0 189.2 189.2	5050	22S/22E-05L01 M	188.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69	189.0 189.0 131.5 134.0 175.0 NM-9 NM-4 NM-0	-1.0 6.0 6.5 4.0 13.0	5050
24S/22E-28A02 M	207.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69	263.0 238.0 220.5 211.0 NM-9 NM-9 NM-9 NM-9 NM-0	-56.0 -31.0 -13.5 -4.0	5050	22S/22E-10A01 M	192.0	7-03-69 8-04-69 8-29-69	125.6 118.6 116.0	66.4 73.4 76.0	5050
24S/22E-28A02 M	207.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69	263.0 238.0 220.5 211.0 NM-9 NM-9 NM-9 NM-9 NM-0	-56.0 -31.0 -13.5 -4.0	5050	22S/22E-13P01 M	193.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	18.9 16.9 16.8 15.9 14.5 15.0 NM-9 12.8 12.0 181.0 117.4 111.1	174.1 176.1 176.2 177.1 175.5 178.0 180.2 181.0 181.1 181.4 181.9	5050
24S/22E-35E01 M	213.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	NM-1 247.0 222.5 212.0 193.0 177.0 163.0 NM-1 NM-1 NM-1 NM-1	-34.0 -9.5 1.0 20.0 36.0 50.0	5050	22S/22E-15C01 M	191.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69 6-10-69 7-03-69 8-04-69 8-29-69	175.5 173.5 168.0 166.5 163.5 152.5 139.5 132.5 121.5 118.5 114.5 113.1	15.5 17.5 23.0 24.5 27.5 36.5 51.5 58.5 69.5 75.5 76.5 77.9	5050
25S/21E-30K01 M	237.5	10-30-68 12-02-68 1-08-69 2-05-69 3-07-69 3-26-69 5-06-69 6-04-69 7-08-69 8-05-69 9-04-69	35.5 36.9 36.8 NM-9 NM-9 NM-9 NM-9 36.4 36.4 36.3 36.3 36.4	202.0 200.6 200.7	5050	22S/22E-22H01 M	191.0	7-03-69 8-04-69 8-29-69	110.0 119.5 127.5	81.0 71.5 63.5	5050
26S/21E-22D01 M	281.0	10-30-68 12-02-68 1-08-69 2-05-69 3-07-69 3-26-69 5-06-69 6-04-69 7-08-69 8-05-69 9-04-69	NM-1 71.0 71.4 64.1 NM-9 NM-9 NM-9 NM-9 NM-9 74.8 67.5	210.0 209.6 216.5	5050	MENDOTA-HURON AREA					
CORCORAN IRRIGATION DISTRICT						5-22-46					
20S/22E-35R01 M	216.0	7-03-69 8-04-69 8-29-69	41.2 46.0 39.5	174.8 170.0 176.5	5050	13S/12E-22N01 M	280.0	10-18-68 3-14-69	177.6 145.1	102.4 134.9	5001
21S/22E-16L02 M	196.5	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69	45.5 50.0 40.5 40.3 42.8 NM-9 35.0 NM-0	151.0 146.5 156.0 156.2 153.7	5050	13S/13E-12A01 M	183.0	10-18-68	NM-0		5001
21S/22E-21P01 M	192.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69	NM-7 138.9 NM-1 130.0 131.0 NM-9 146.0 NM-0	3.2 2.0 11.1	5050	14S/12E-12H01 M	338.0	10-21-68 11-19-68 12-19-68 1-13-69 2-11-69 3-11-69 4-08-69 5-06-69 6-27-69 7-21-69 8-27-69 9-24-69	541.1 534.5 535.1 530.2 525.1 518.2 527.1 531.3 535.5 528.3 523.4 516.2	-203.1 -196.5 -197.1 -192.2 -187.1 -180.2 -189.1 -193.3 -197.5 -190.3 -185.4 -175.2	5000
21S/22E-27A01 M	196.0	10-01-68 11-07-68 12-12-68 1-03-69 1-31-69 3-03-69 4-07-69 4-29-69	20.9 18.9 18.7 19.5 25.0 16.3 16.6 16.8	175.1 177.1 177.3 176.5 171.0 174.7 170.4 174.2	5050	14S/13E-15M01 M	321.0	12-16-68	454.0	-133.0	5050
						14S/14E-28E02 M	248.0	10-21-68 2-13-69	53.0 NM-3	195.0	5000
						14S/15E-18E02 M	179.0	12-20-68	221.0	-43.0	5050
						14S/15E-35N01 M	161.0	2-12-69	NM-9		5001
						15S/13E-11D02 M	345.0	10-21-68 11-19-68 12-19-68 1-13-69 2-11-69 3-11-69 4-08-69 5-06-69 6-27-69 7-21-69 8-27-69 9-24-69	580.3 570.0 552.2 549.2 548.8 526.6 528.8 541.8 561.7 578.8 582.9 553.1	-235.3 -225.0 -207.2 -204.2 -203.8 -181.6 -183.8 -196.8 -216.7 -233.8 -237.9 -208.1	5000
						15S/14E-15E04 M	236.0	10-18-68 11-20-68 12-20-68 1-13-69 2-3-69	419.6 405.0 391.0 NM-7 330.0	-183.6 -169.0 -155.0	5000

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA						MENDOTA-HURON AREA (Cont.)					
15S/14E-15B04 M (Cont.)	236.0	3-22-69 4-20-69 5-23-69 6-27-69 7-30-69 8-29-69 9-24-69	399.8 361.4 364.4 376.4 392.2 390.1 390.2	-163.8 -125.5 -130.4 -140.4 -146.2 -154.1 -154.2	5000	20S/13E-06D01 M	317.9	10-22-68 11-20-68 12-19-68 1-14-69 2-12-69 3-12-69 4-09-69 5-06-69 6-27-69 7-30-69 8-27-69 9-23-69	536.7 519.2 519.8 513.6 518.6 518.7 503.4 498.4 520.5 537.2 543.5 534.7	-218.8 -231.3 -201.9 -200.7 -201.7 -200.8 -185.5 -180.5 -202.6 -220.3 -225.3 -216.8	5000
15S/15E-22Q01 M	176.0	2-13-69	117.4	58.6	5001	20S/18E-11N01 M	277.0	12-19-68	NM-1		5050
15S/16E-17L01 M	165.0	10-18-68 11-20-68 12-20-68 1-13-69 2-13-69 3-22-69 4-30-69 5-23-69 6-27-69 7-30-69 8-29-69 9-24-69	45.8 45.3 43.5 NM-7 43.5 43.6 43.6 47.0 44.2 45.2 44.4	119.2 119.7 121.5 121.5 122.0 121.4 121.2 118.0 120.8 119.8 120.6	5000	20S/18E-11Q01 M	270.0	10-22-68 11-19-68 12-19-68 1-14-69 2-14-69 3-12-69 4-09-69 5-07-69 6-27-69 7-30-69 8-27-69 9-23-69	480.7 464.0 465.2 477.0 452.3 434.3 410.9 423.2 446.4 457.6 459.5 462.4	-210.7 -198.2 -207.0 -162.3 -149.3 -140.9 -153.2 -170.4 -187.6 -188.5 -192.4	5000
15S/16E-20R01 M	170.0	10-18-68 2-11-69	83.0 72.9	84.5 94.6	5000	20S/18E-36Q01 M	260.0	10-18-68 2-13-69	299.6 291.0	-39.6 -31.0	5000
15S/16E-28A04 M	169.0	10-18-68 11-20-68 12-20-68 1-13-69 2-13-69 3-22-69 4-30-69 5-23-69 6-27-69 7-30-69 8-29-69 9-24-69	182.9 189.3 185.9 NM-3 188.0 176.0 172.0 173.2 172.4 173.7 175.1 176.1	-13.9 -20.3 -16.9 -19.0 -7.0 -3.0 -3.0 -4.7 -4.7 -6.1 -7.1	5000	21S/17E-22B01 M	577.0	12-18-68	538.7	38.3	5050
						21S/18E-28M02 M	363.0	10-17-68 2-13-69	339.5 344.0	23.5 19.0	5000
						POSO SOIL CONSERVATION DIST.					
16S/15E-02N02 M	219.0	2-18-69	63.3	155.7	5001	10S/13E-06R01 M	110.0	10-01-68 11-02-68 12-09-68 1-04-69 2-06-69 3-06-69 4-05-69 5-06-69 7-03-69 8-01-69 9-05-69	15.2 94.8 97.3 127.7 126.6 11.3 8.5 8.7 7.2 5.3 15.0 9.6 5.5	94.8 97.3 127.7 126.6 98.7 101.5 103.3 102.8 104.7 98.0 100.4 104.5	5529
16S/15E-34N04 M	334.0	10-21-68 11-19-68 12-19-68 1-13-69 2-11-69 3-11-69 4-09-69 5-06-69 6-27-69 7-31-69 8-27-69 9-24-69	575.1 570.0 563.2 572.2 554.5 532.1 524.4 530.0 557.6 570.3 567.2 545.9	-241.1 -225.6 -229.2 -238.2 -220.5 -198.1 -190.4 -201.2 -223.6 -236.3 -233.2 -211.9	5000	11S/13E-05Q01 M	117.0	10-01-68 11-02-68 12-09-68 1-04-69 2-06-69 3-06-69 4-05-69 5-06-69 6-04-69 7-03-69 8-01-69 9-05-69	13.1 12.1 12.4 12.2 11.3 10.5 11.1 10.9 9.2 12.0 9.8 8.8	103.9 104.9 104.8 106.7 106.5 105.9 109.1 107.8 105.0 107.2 108.2	5529
16S/16E-10N01 M	187.0	2-11-69	125.2	61.8	5001	11S/13E-26A01 M	128.0	10-01-68 11-02-68 12-09-68 1-04-69 2-06-69 3-06-69 4-05-69 5-06-69 6-04-69 7-03-69 8-01-69 9-05-69	14.7 12.6 12.6 12.0 11.2 9.7 9.4 10.3 11.7 10.3 11.2 9.4	113.3 116.7 115.4 116.0 116.8 113.3 118.6 117.7 120.5 117.7 116.8 118.6	5529
17S/24E-13R01 M	457.0	12-18-68	NM-1		5050	11S/13E-33L01 M	126.0	10-01-68 11-02-68 12-09-68 1-04-69 2-06-69 3-06-69 4-05-69 5-06-69 6-04-69 7-03-69 8-01-69 9-05-69	9.3 9.5 9.9 10.5 9.8 5.9 7.1 7.5 10.3 11.6 9.1 8.0	116.7 115.4 116.1 115.5 116.2 120.5 117.7 116.8 119.2 117.9 118.0	5529
17S/16E-02E01 M	218.0	2-05-69	NM-6		5001	12S/13E-13J01 M	140.0	10-01-68 11-02-68 12-09-68 1-04-69 2-06-69 3-06-69 4-05-69 5-06-69 6-04-69 7-03-69 8-01-69 9-05-69	8.1 10.2 10.8 10.2 6.7 5.9 7.1 6.8 7.0 11.6 3.1 8.0	131.0 129.8 129.8 129.8 133.5 134.6 133.8 133.6 134.2 130.0 133.4 133.7	5529
17S/16E-24R01 M	232.5	10-18-68 2-13-69	193.5 173.3	39.0 60.2	5000	18S/17E-12W01 M	253.0	12-18-68	NM-7		5050
17S/16E-30A03 M	290.0	10-18-68 11-20-68 12-20-68 1-14-69 2-13-69 3-22-69 4-30-69 5-23-69 6-27-69 7-30-69 8-29-69 9-24-69	67.9 68.3 68.9 NM-7 67.3 67.8 64.5 66.8 66.0 66.0 68.0 65.9	222.1 221.7 221.1 222.7 222.2 222.2 225.5 223.2 224.0 224.0 224.1 224.1	5000	19S/18E-15M01 M	274.0	12-20-68	391.3	-117.3	5050
17S/16E-30A06 M	302.0	10-18-68 11-20-68 12-20-68 1-14-69 2-13-69 3-22-69 4-30-69 5-23-69 6-27-69 7-30-69 8-29-69 9-24-69	521.3 515.9 509.5 NM-7 499.0 483.2 493.0 471.2 473.4 472.1 480.7 493.9	-219.3 -213.9 -207.5 -197.0 -181.2 -186.0 -169.2 -171.4 -170.1 -178.9 -191.9	5000	19S/18E-27M01 M	281.0	10-17-68 11-19-68 12-19-68 1-14-69 2-13-69 3-21-69 4-29-69	NM-7 384.5 NM-7 NM-7 NM-7 NM-7 NM-0	-103.5	5000
17S/17E-20W01 M	228.0	12-23-68	354.0	-126.0	5050	20S/17E-32P01 M	447.0	12-18-68	606.4	-159.4	5050

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	APPROX. SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SURVEYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SURVEYING DATA
TERRA BELLA IRRIGATION DISTRICT						MERCED BOTTOMS					
5-22.50						5-22.54					
22S/27E-25J03 M	532.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-20-69 4-23-69 5-26-69 6-19-69 7-20-69 8-19-69 9-24-69	105.8 104.2 102.9 99.2 96.8 98.2 90.9 106.7 106.6 103.4 109.0 110.7	426.2 427.8 429.2 436.6 435.2 433.6 435.1 425.3 425.4 423.6 423.0 421.3	5001	9S/14E-01B01 M (Cont.)	180.0	1-30-69 3-05-69 4-04-69 5-05-69 6-02-69 7-01-69 8-12-69 9-10-69	59.2 59.0 54.5 57.0 77.5 96.5 104.5 103.0	120.8 121.0 125.0 123.0 102.5 83.5 75.5 77.0	5050
23S/27E-01A01 M	506.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-20-69 4-23-69 5-26-69 6-19-69 7-20-69 8-19-69 9-23-69	86.3 NM-3 NM-3 83.5 84.9 81.5 NM-3 80.4 80.4 81.3 81.5	419.7 422.5 421.1 424.5 425.6 425.6 424.5 424.7 424.5	5001	9S/14E-01B02 M	180.0	11-06-68 12-11-68 1-02-69 1-30-69 3-05-69 4-04-69 5-01-69 6-02-69 7-01-69 8-12-69 9-10-69	80.9 68.5 64.0 61.0 56.0 53.0 54.2 72.5 89.5 87.5 96.9	99.1 111.5 116.0 119.0 124.0 127.0 125.8 107.5 90.5 85.5 83.1	5050
23S/27E-05A01 M	450.0	10-22-68 11-26-68 12-20-68 1-21-69 2-20-69 3-20-69 4-23-69 5-26-69 6-19-69 7-20-69 8-19-69 9-23-69	169.8 164.0 162.0 164.1 163.9 162.3 166.9 166.9 164.0 162.0 161.5 162.3	280.2 286.0 286.6 285.9 286.1 287.7 283.1 283.1 286.0 286.6 287.7 283.1	5001	9S/14E-06D01 M	141.0	11-06-68 12-11-68 1-02-69 1-30-69 3-05-69 4-04-69 5-01-69 6-02-69 7-01-69 8-12-69 9-10-69	46.2 45.3 44.0 44.0 42.0 42.0 39.9 39.8 39.9 40.5	94.8 98.7 97.0 97.0 99.0 99.0 101.1 101.2 102.1 100.5	5050
MERCED BOTTOMS						GARFIELD WATER DISTRICT					
5-22.54						5-22.65					
7S/10E-23K01 M	80.0	10-02-68 11-06-68 12-04-68 1-06-69 2-06-69 3-05-69 4-08-69 5-05-69 6-03-69 7-07-59 8-05-69 9-03-69	16.6 13.0 9.3 5.5 2.3 NM-9 1.2 1.8 76.1 4.2 75.8 9.4	63.4 67.0 70.7 74.5 77.7 78.8 78.2 76.1 75.8 70.8 70.6	5050	12S/20E-13A01 M	388.0	10-01-68 11-02-68 11-29-68 1-01-69 2-01-69 3-01-69 4-01-69 5-02-69 6-02-69 7-01-69 8-01-69 9-01-69	117.0 115.9 114.0 113.0 112.4 111.8 111.2 111.4 113.5 113.6 115.3 115.0	273.0 272.2 272.6 275.0 275.6 276.2 276.8 276.6 274.5 274.4 272.7 273.0	5001
7S/10E-23K02 M	80.0	10-02-68 11-06-68 12-04-68 1-06-69 2-06-69 3-05-69 4-08-69 5-05-69 6-03-69 7-07-69 8-05-69 9-03-69	3.4 76.6 3.6 2.9 2.3 NM-9 0.9 11.1 3.3 3.6 4.2 4.7	76.6 76.6 76.4 77.5 79.5 79.1 78.9 76.7 76.4 75.8 75.3	5050	12S/21E-07A02 M	405.5	10-01-68 11-02-68 11-29-68 1-01-69 2-01-69 3-01-69 4-01-69 5-02-69 6-02-69 7-01-69 8-01-69 9-01-69	141.8 138.8 137.3 135.5 134.5 134.2 132.6 131.9 132.2 132.4 132.7 130.4	263.7 265.7 268.2 270.0 271.0 271.3 272.9 273.6 273.3 273.1 275.1	5001
7S/12E-27P01 M	110.5	11-06-68 12-11-68 1-02-69 1-30-69 3-05-69 4-04-69 5-01-69 6-02-69 7-01-69 8-12-69 9-10-69	9.5 9.5 9.5 10.0 10.7 4.4 6.0 7.3 9.4 10.0 12.2	101.0 101.0 101.0 105.7 106.1 104.5 102.7 101.1 100.1 99.3	5050	12S/21E-18A03 M	390.5	10-01-68 11-02-68 11-29-68 1-01-69 2-01-69 3-01-69 4-01-69 5-02-69 6-02-69 7-01-69 8-01-69 9-01-69	104.6 102.8 101.5 101.1 100.3 100.7 103.0 100.0 99.4 99.4 102.7 100.7	285.9 287.7 289.0 289.4 290.2 289.8 289.8 290.5 290.5 291.1 291.1 289.8	5001
8S/12E-19D01 M	90.0	11-05-68 12-11-68 1-02-69 1-30-69 3-05-69 4-04-69 5-01-69 6-02-69 7-01-69 8-12-69 9-10-69	21.5 17.0 15.5 NM-9 NM-9 7.0 7.0 7.3 8.2 11.2 11.0	68.5 73.0 74.5 83.0 83.0 82.7 81.8 78.8 78.0	5050	KINGS COUNTY WATER DISTRICT					
5-22.66						5-22.66					
9S/12E-01C01 M	110.5	11-06-68 12-11-68 1-02-69 1-30-69 3-05-69 4-04-69 5-01-69 6-02-69 7-01-69 8-12-69 9-10-69	30.6 NM-9 35.5 NM-9 NM-9 7.0 7.0 7.3 8.2 11.2 11.0	77.9 79.9 75.0 79.9 79.9 83.0 83.0 82.7 81.8 78.8 78.0	5050	17S/20E-36R02 M	243.0	11-07-68 12-01-68 1-01-69 NM-7 3-01-69 3-29-69 5-03-69 5-30-69 7-06-69 8-03-69 9-02-69 9-20-69	15.4 16.0 20.5 17.0 14.9 21.1 31.4 11.1 10.5 11.8 11.6	227.6 227.0 228.5 226.0 229.1 231.9 211.6 231.9 235.5 231.2 231.4	5129
9S/14E-01B01 M	180.0	11-06-68 12-11-68 1-02-69	85.9 110.5 65.0	94.1 110.5 115.0	5050	17S/22E-11P01 M	283.0	11-07-68 12-01-68 1-01-69 1-00-69	25.9 24.5 24.9 NM-7	257.1 254.5 249.9	5129

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

WELL NUMBER	WELL TYPE	DATE	GROUND SURFACE ELEVATION IN FEET	WATER LEVEL ELEVATION IN FEET	A. C. NO. / W. P. NO. DATA	WELL NUMBER	WELL TYPE	DATE	GROUND SURFACE ELEVATION IN FEET	WATER LEVEL ELEVATION IN FEET	A. C. NO. / W. P. NO. DATA
KINGS COUNTY WATER DISTRICT 5-22-66						KINGS COUNTY WATER DISTRICT 5-22-66					
17S/22E-11P01 M (Cont.)	283.0	3-01-69	21.9	261.1	5129	19S/22E-19A01 M (Cont.)	235.0	4-22-69	88.0	147.0	5001
		3-01-69	21.7	264.5				5-27-69	85.0	146.4	
		5-03-69	22.5	260.5				6-18-69	95.0	140.0	
		5-30-69	23.6	261.4				7-28-69	98.6	136.4	
		8-06-69	NM-1					8-18-69	95.3	135.6	
		8-03-69	19.8	264.2				9-28-69	88.0	150.0	
		9-02-69	NM-7								
		9-20-69	16.9	266.1		19S/22E-23A01 M	240.0	10-13-68	84.6	155.4	5129
17S/22E-35N01 M	266.0	11-07-68	44.1	221.9	5129			11-07-68	87.4	152.6	
		12-01-68	41.7	224.5				12-01-68	88.3	151.7	
		1-01-69	43.5	222.5				1-01-69	96.8	150.2	
		1-00-69	NM-7					1-00-69	NM-7		
		3-01-69	31.0	235.0				3-01-69	81.0	159.0	
		3-29-69	36.7	229.3				3-29-69	86.5	153.5	
		5-03-69	37.1	228.9				5-03-69	81.9	158.1	
		5-30-69	37.2	228.8				5-30-69	79.2	160.8	
		7-06-69	37.4	228.6				7-06-69	86.3	153.7	
		8-03-69	38.1	227.9				8-03-69	81.3	158.7	
		9-02-69	34.6	231.4				9-02-69	73.9	166.1	
		9-20-69	33.0	233.0				9-30-69	73.8	166.2	
18S/21E-17N01 M	238.0	11-07-68	9.6	228.4	5129	20S/21E-03A01 M	222.0	2-21-69	15.2	206.8	5001
		12-01-68	14.5	227.5		20S/21E-05E01 M	219.0	10-13-68	NM-7		5129
		1-01-69	10.5	227.5				11-07-68	NM-7		
		1-00-69	NM-7					12-01-68	174.0	45.0	
		3-01-69	9.6	228.4				1-01-69	175.5	43.5	
		3-29-69	10.0	228.0				1-00-69	NM-7		
		5-03-69	7.4	230.6				3-01-69	134.8	34.2	
		5-30-69	6.8	231.2				3-29-69	159.5	59.5	
		7-06-69	6.5	231.5				6-03-69	164.8	54.2	
		8-03-69	7.0	231.0				5-30-69	NM-9		
		9-02-69	7.0	231.0				7-06-69	149.0	70.0	
		9-23-69	7.3	230.7				8-03-69	159.0	69.0	
18S/22E-21N01 M	258.0	11-07-68	86.0	173.0	5129	20S/22E-10H02 M	225.0	10-13-68	135.4	89.6	5129
		12-01-68	84.0	174.0				11-07-68	135.9	89.1	
		1-01-69	84.8	173.2				12-01-68	NM-0		
		1-00-69	NM-7								
		1-01-69	73.8	184.2							
		3-29-69	82.5	175.5							
		5-03-69	78.0	180.0							
		5-30-69	77.3	180.7							
		7-06-69	NM-9								
		8-03-69	NM-9								
		9-02-69	NM-9								
		9-30-69	77.4	180.6							
18S/22E-36P01 M	245.0	10-29-68	101.4	143.6	5001						
		11-26-68	94.6	150.4							
		12-30-68	93.4	151.6							
		1-28-69	NM-9								
		3-03-69	NM-9								
		3-31-69	83.5	161.5							
		5-05-69	84.6	160.4							
		5-29-69	85.2	159.8							
		7-02-69	91.5	153.5							
		7-30-69	92.5	152.5							
		8-27-69	94.1	150.9							
		9-25-69	85.5	159.5							
18S/23E-28B01 M	263.0	11-07-68	96.4	166.6	5129						
		12-01-68	104.6	158.4							
		1-01-69	105.9	157.1							
		1-00-69	NM-7								
		3-01-69	86.7	176.3							
		3-29-69	89.9	173.1							
		5-03-69	83.2	174.8							
		5-30-69	92.0	171.0							
		7-06-69	91.1	171.9							
		8-03-69	NM-1								
		9-02-69	NM-1								
		9-30-69	91.5	171.5							
19S/21E-20N01 M	225.0	10-31-68	9.5	215.5	5129						
		11-07-68	9.5	215.5							
		12-01-68	13.6	211.4							
		1-01-69	14.1	210.9							
		1-00-69	NM-7								
		3-01-69	11.5	213.5							
		3-29-69	13.5	211.5							
		5-03-69	9.3	215.7							
		5-30-69	8.8	216.8							
		7-06-69	6.8	218.2							
		8-03-69	6.4	218.6							
		9-02-69	6.4	218.6							
		9-30-69	7.8	217.2							
19S/22E-04B01 M	245.0	10-13-68	76.3	169.7	5129						
		11-07-68	83.8	146.2							
		12-01-68	93.0	152.0							
		1-01-69	93.4	151.6							
		1-00-69	NM-7								
		3-01-69	83.4	161.6							
		3-29-69	NM-1								
		5-03-69	89.5	155.5							
		5-30-69	82.4	162.6							
		7-06-69	88.2	156.8							
		8-03-69	86.0	159.0							
		9-02-69	NM-9								
		9-30-69	80.4	164.6							
19S/22E-19A01 M	235.0	10-21-68	109.0	126.0	5001						
		11-25-68	98.5	136.5							
		12-19-68	95.1	140.0							
		1-20-69	92.5	142.5							
		2-19-69	91.2	143.8							
		3-24-69	88.4	146.6							

APPENDIX D
SURFACE WATER QUALITY

INTRODUCTION

Appendix D summarizes the surface water quality and electrical conductivity data for the San Joaquin Valley for 1969 water year (October 1, 1968 through September 30, 1969). These data were obtained from analyses of water samples from 28 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources; the U. S. Corps of Engineers; U. S. Forest Service; California Water Quality Control Board - Central Valley Region; and Kern County Department of Parks and Recreation. Electrical conductivity recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The third digit indicates the stream and the next three integers designate the relative number of the station on the stream system. The last two digits denote the location of the sampling station relative to a gaging station.

HYDROGRAPHIC AREA B

SAN JOAQUIN RIVER BASIN

B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side

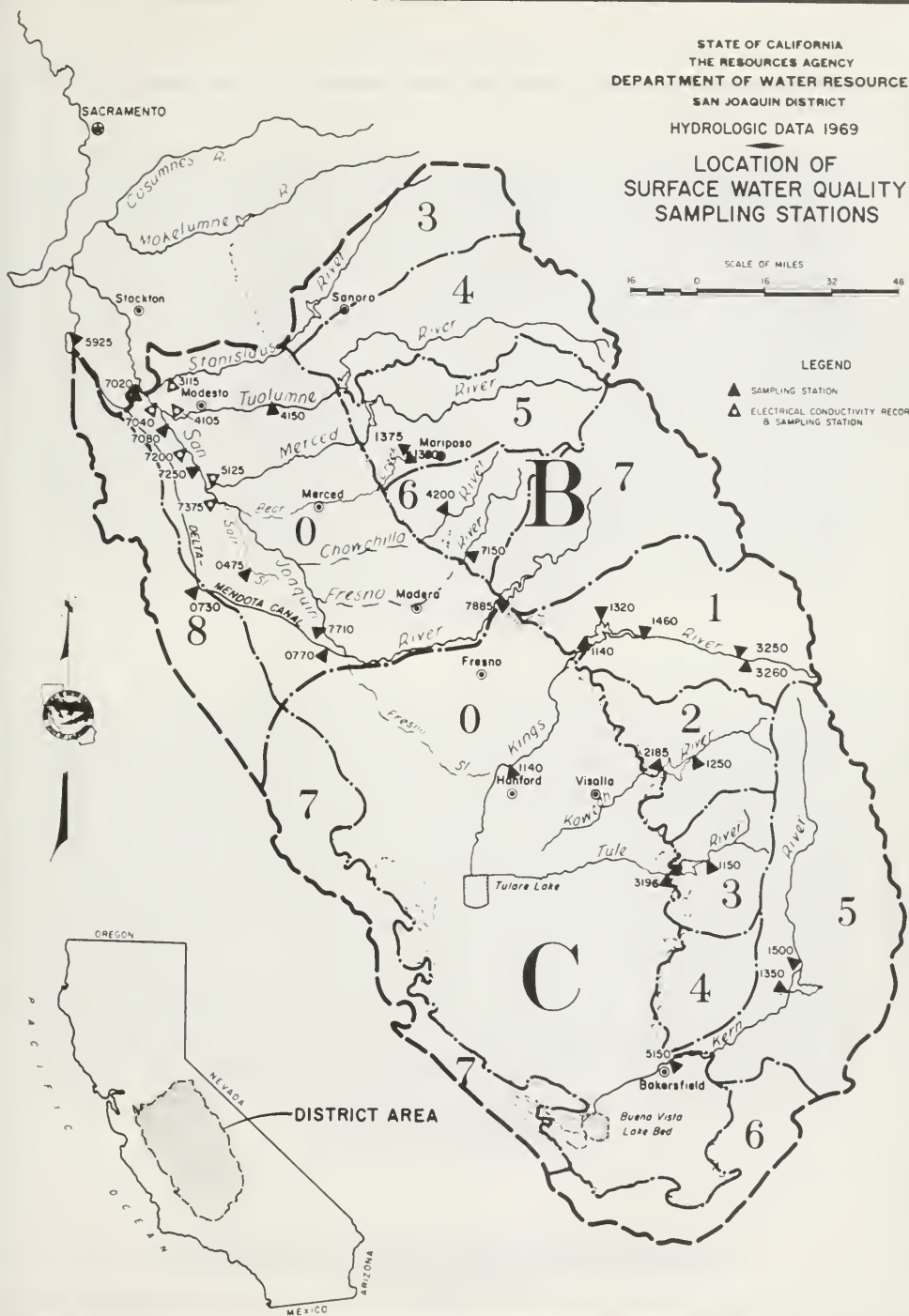
TABLE 2
SAMPLING STATION DATA AND INDEX
FOR
SURFACE WATER

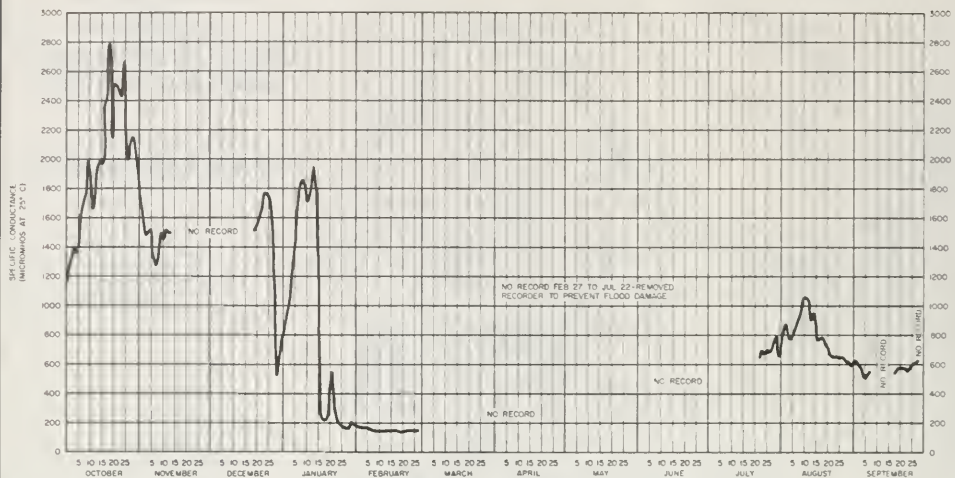
Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Bear Creek at Oak Road	B51375.50	4S/18E-25	September 1969	-	CRWQCB	212, 227
Bear Creek near Bear Creek School	B51380.50	5S/19E-5	July 1969	-	CRWQCB	212, 219
Big Creek above Pine Flat Dam	C11320.00	12S/25E-4	July 1960	M	USACE	214, 224, 227
Chowchilla River near Raymond	B64200.00	8S/18E-1	January 1962	S	DWR	208, 222, 224
Delta-Mendota Canal at San Luis	B00730.50	9S/8E-36	October 1968	-	DWR	208
Delta-Mendota Canal near Mendota	B00770.00	13S/15E-19	July 1952	Q	DWR	208, 222, 223
Delta-Mendota Canal near Tracy	B95925.00	1S/4E-30	July 1952	Q	DWR	212, 222, 224, 227
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	S	DWR	208, 224
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	M	USACE	213, 222, 224, 227
Kaweah River at Three Rivers	C21250.00	17S/28E-27	April 1951	M	USACE	214, 222, 224, 227
Kern River near Bakersfield	C05150.00	29S/28E-9	April 1951	Q	KCPR	215, 220, 222, 224
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	Q	USACE	216, 222, 224
Kern River at Kernville	C51500.00	25S/33E-15	September 1955	Q	USACE	217, 222, 225
Kings River below North Fork	C11460.00	12S/26E-21	September 1955	M	USACE	215, 222, 224, 227
Kings River below Peoples Weir	C01140.00	17S/22E-1	April 1951	Q	DWR	213, 219, 222, 227
Kings River below Pine Flat Dam	C11140.00	13S/24E-2	September 1955	M	USACE	215, 222, 224, 227
Merced River near Stevinson	B05125.00	6S/9E-36	April 1951	S	DWR	209, 219, 222, 223, 227
Rattlesnake Creek below Burn	C13250.30	11S/30E-	October 1968	-	USFS	216, 227
Rattlesnake Creek above Burn	C13260.30	11S/30E-	October 1968	-	USFS	216, 227
Salt Slough at San Luis Ranch	B00475.00	9S/11E-7	November 1958	S	DWR	209, 219, 223
San Joaquin River at Crows Landing Bridge	B07250.00	6S/9E-7	January 1962	Q	DWR	211, 217, 223, 227
San Joaquin River at Fremont Ford Bridge	B07375.00	7S/9E-24	July 1955	S	DWR	211, 219, 222, 223, 227
San Joaquin River below Friant	B07885.00	11S/21E-7	April 1951	S	DWR	211, 219, 224
San Joaquin River near Grayson	B07080.00	4S/7E-24	April 1959	Q	DWR	210, 219, 223, 227
San Joaquin River at Maze Road Bridge	B07040.00	3S/7E-33	April 1951	S	DWR	210, 219, 223, 227
San Joaquin River near Mendota	B07710.00	13S/15E-7	April 1951	S	DWR	211, 222, 224
San Joaquin River at Patterson Bridge	B07200.00	5S/8E-15	January 1962	S	DWR	211, 219, 223, 227
San Joaquin River near Vernalis	B07020.00	3S/6E-13	April 1951	M	DWR	210, 219, 222, 223, 227
Stanislaus River at Koetitz Ranch	B03115.00	3S/7E-2	April 1951	S	DWR	209, 219, 222, 223, 227
Tule River near Springville	C31150.00	21S/29E-15	November 1963	M	USACE	216, 222, 224, 227
Tule River below Success Dam	C03196.00	21S/28E-35	July 1952	M	USACE	213, 220, 222, 224, 227
Tuolumne River at Hickman Bridge	B04150.00	3S/11E-34	April 1951	S	DWR	209, 219, 223
Tuolumne River at Tuolumne City	B04105.00	4S/8E-12	April 1951	S	DWR	209, 219, 222, 223, 227

- a. Locations are in reference to Mt. Diablo Base and Meridian
b. Beginning of record
c. M - Monthly, Q - Quarterly, S - Semiannually
d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers, KCPR - Kern County Parks and Recreation, USFS - United States Forest Service, CRWQCB - California Regional Water Quality Control Board-Central Valley Region

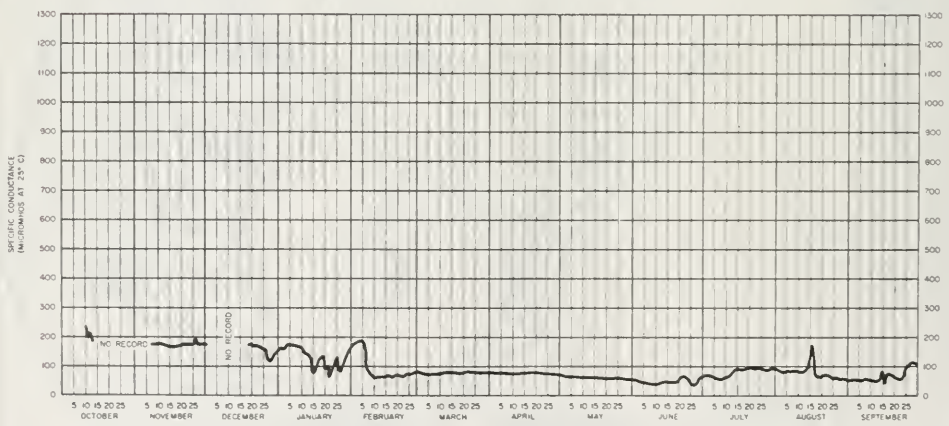
STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1969

LOCATION OF
 SURFACE WATER QUALITY
 SAMPLING STATIONS



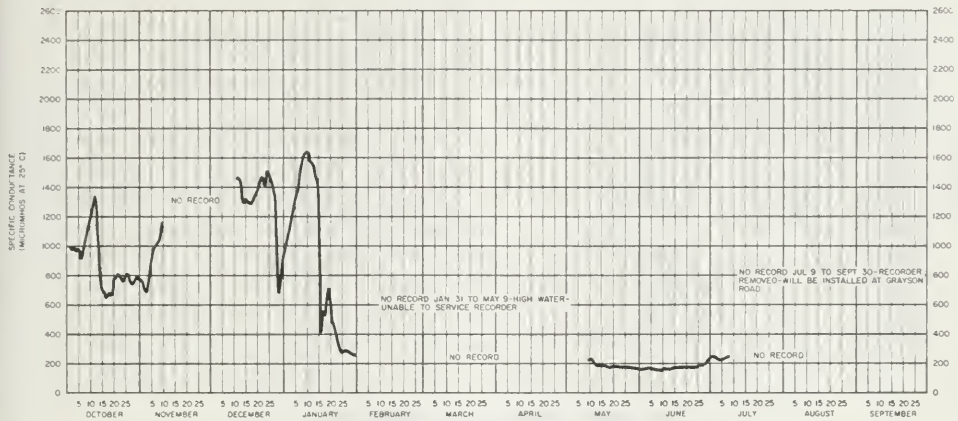


**SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
STA. No. B07375.00 RIVER MILE 129.5**

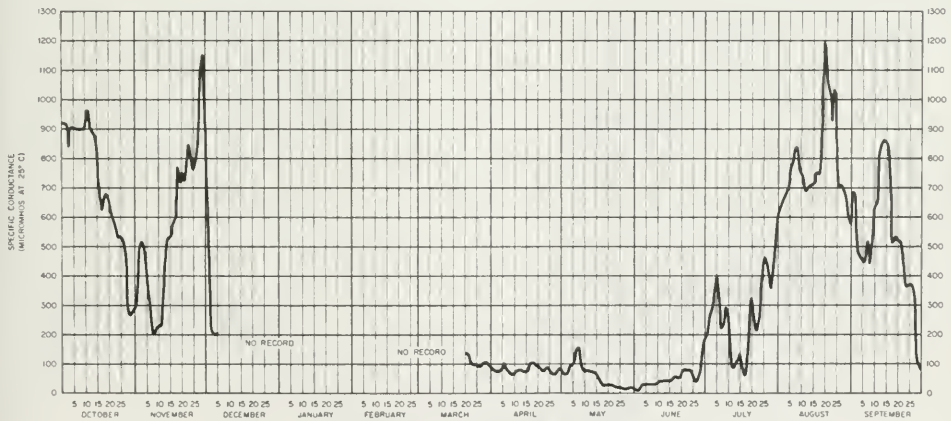


**MERCED RIVER NEAR STEVINSON
STA. No. B05125.00 RIVER MILE 11.65**

**DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1969**



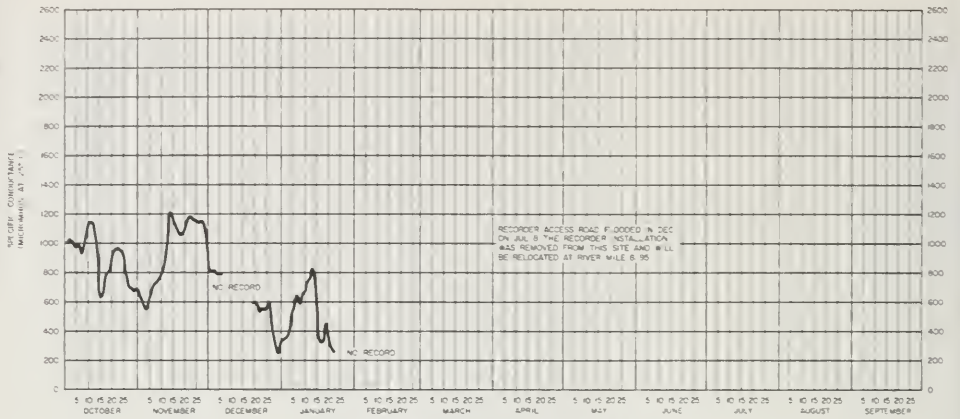
SAN JOAQUIN RIVER AT PATTERSON BRIDGE
STA. No. B07200.00 RIVER MILE 104.5



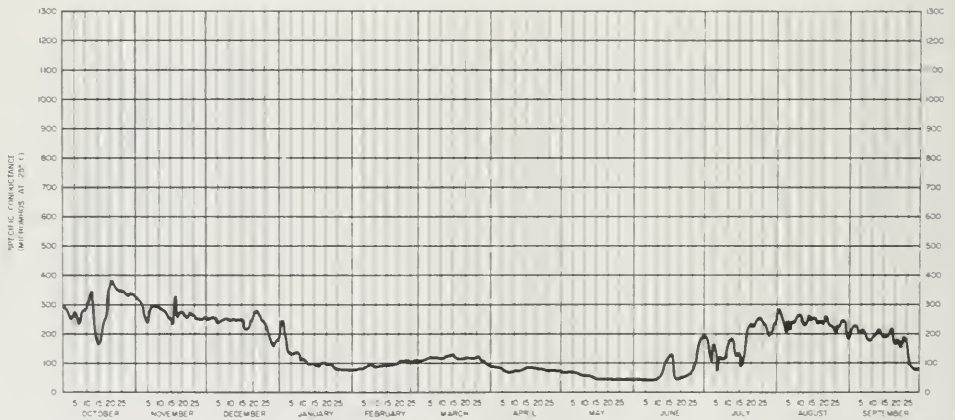
TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

1969



SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 82.9



STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

1969

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources Bryte Laboratory or the U. S. Geological Survey Laboratory in Sacramento. The U. S. Geological Survey Laboratory is coded as 5000 and Bryte Laboratory as 5050.

The sampler codes are as follows:

5002	U. S. Army Corps of Engineers
5005	U. S. Forest Service
5050	Department of Water Resources
5055	California Water Quality Control Board - Central Valley Region
5204	City and County of San Francisco
5633	Kern County Parks and Recreation Department

The following are definitions of chemical symbols and of abbreviations used in this table.

<u>Chemical Symbols</u>	<u>Abbreviations</u>
B Boron	SO ₄ Sulfate
CA Calcium	DO Dissolved Oxygen
CL Chloride	EC Electrical Conductance
CO ₃ Carbonate	FLD Field Determination
F Fluoride	LAB Laboratory
HCO ₃ Bicarbonate	NCH Non Carbonate Hardness
K Potassium	TDS Total Dissolved Solids
MG Magnesium	TEMP Temperature
NA Sodium	TH Total Hardness
NO ₃ Nitrate	SAT Per Cent Saturation
SiO ₂ Silica	pH Measure of acidity or alkalinity of water

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. 2	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
BO 0730.50																				
DELTA-MENDOTA CANAL AT SAN LUIS																				
10/09/68 1045	5050 5050				8.3	730	33 1.65	19 1.57	79 3.44	3.9 0.20	0.0	153 2.51	54 1.12	107 3.02	3.5 0.06		0.2	395	161 36	
11/06/68 1125	5050 5050				7.7	434	14 0.70	15 1.26	42 1.83	2.0 0.07	0.0	100 1.64	28 0.58	60 1.69	3.3 0.05		0.2	232	98 16	
12/11/68	5050 5050				8.1	742	35 1.75	19 1.53	81 3.52	3.8 0.10	0.0	137 2.24	71 1.48	110 3.10	7.2 0.12		0.4	411	164 52	
02/05/69 0910	5050 5050				7.6	284	16 0.80	7.3 0.60	29 1.26	2.8 0.07	0.0	61 1.00	31 0.64	34 0.96	3.5 0.06		0.3	170	70 20	
03/05/69 0930	5050 5050				7.8	318	18 0.90	9.0 0.74	30 1.30	2.3 0.03	0.0	71 1.16	36 0.75	35 0.99	5.2 0.08		0.2	207	82 24	
04/09/69	5050 5050				7.6	236	13 0.65	5.7 0.47	22 0.96	1.3 0.03	0.0	56 0.92	23 0.48	26 0.73	1.7 0.03		0.1	150	56 10	
05/07/69	5050 5050				9.3	206	13 0.65	6.4 0.53	20 0.87	0.8 0.02	1.2 0.40	28 0.46	25 0.52	23 0.65	0.0 0.00		0.1	122	59 18	
06/04/69	5050 5050				8.0	143	8.7 0.43	3.3 0.27	14 0.01	1.3 0.03	0.0	31 0.51	12 0.25	17 0.48	1.5 0.02		0.0	99	35 10	
07/02/69 0940	5050 5050				7.7	244	13 0.65	6.9 0.57	23 1.00	3.8 0.02	0.0	43 0.70	27 0.56	36 1.02	2.4 0.04		0.2	164	61 26	
08/06/69	5050 5050				7.5	755	40 2.00	21 1.72	82 3.57	3.3 0.08	0.0	145 2.38	79 1.64	111 3.13	5.7 0.09		0.4	430	185 66	
09/10/69 0930	5050 5050				7.7	696	35 1.75	18 1.47	80 3.48	3.5 0.09	0.0	126 2.06	76 1.58	108 3.05	5.5 0.09		0.5	396	161 58	
BO 0770.00																				
DELTA-MENDOTA CANAL NEAR MENDOTA																				
10/09/68 1310	5050 5050				8.2	384	18 0.90	12 1.00	35 1.52	2.3 0.06	0.0	106 1.74	27 0.56	42 1.18	2.5 0.04		0.1	218	95 8	
11/06/68 1355	5050 5050				7.8	493	21 1.05	14 1.15	49 2.13	2.5 0.07	0.0	106 1.74	50 1.04	58 1.64	7.0 0.11		0.2	279	110 23	
12/11/68	5050 5050				8.2	925	40 2.00	24 1.98	114 4.96	5.3 0.14	0.0	152 2.49	121 2.52	133 3.75	8.4 0.14		0.6	524	199 74	
02/05/69 0715	5050 5050				8.1	895	41 2.04	23 1.86	99 4.31	4.9 0.12	0.0	148 2.42	120 2.50	124 3.50	6.8 0.11		0.6	513	195 74	
03/05/69 0725	5050 5050				8.2	1200	54 2.69	31 2.54	144 6.26	4.2 0.09	0.0	142 2.33	260 5.41	140 3.95	6.1 0.10		1.0	762	262 146	
04/09/69	5050 5050				7.6	101	8.3 0.41	3.0 0.25	7.2 0.31	1.5 0.04	0.0	46 0.75	7.6 0.16	2.6 0.07	0.9 0.01		0.0	88	33 0	
05/07/69	5050 5050				7.7	60	6.7 0.33	1.8 0.15	3.8 0.16	0.6 0.02	0.0	29 0.48	7.6 0.16	1.6 0.04	0.1 0.00		0.0	44	24 0	
06/04/69	5050 5050				7.8	56	5.3 0.26	1.4 0.12	3.1 0.13	1.5 0.03	0.0	24 0.39	0.3 0.01	1.5 0.04	0.2 0.00		0.0	55	19 0	
07/02/69 0730	5050 5050				7.0	33	3.6 0.18	0.7 0.06	1.6 0.07	0.6 0.02	0.0	16 0.26	3.3 0.07	1.7 0.05	0.4 0.01		0.0	33	12 0	
08/06/69	5050 5050				7.8	587	30 1.50	16 1.30	63 2.74	3.1 0.08	0.0	117 1.92	61 1.27	81 2.28	4.3 0.07		0.3	331	140 44	
09/08/69 1240	5050 5050		7.8	82 F	7.5 7.5	540 550			54 2.35		0.0	113 1.85		71 2.00			0.2		128 35	
09/10/69 0730	5050 5050				7.5	412	22 1.10	11 0.90	44 1.91	2.1 0.05	0.0	94 1.54	39 0.81	51 1.44	3.5 0.06		0.2	238	100 23	
B6 7150.00																				
FRESNO RIVER NEAR DAULTON																				
05/06/69 1155	5050 5050		10.0	65 F	7.3 7.3	98	9.5 0.47	2.3 0.19	7.5 0.33	1.3 0.03	0	48 0.79	1.8 0.04	4.1 0.12	0.0 0.00		1.2	90	33 0	
09/16/69 0930	5050 5050			9.5	69 F	157 7.4	12 0.60	15 0.14	15 0.65	1.8 0.05	0.0	57 0.93	1.8 0.04	20 0.56	0.1 0.00		0.0	102	37 0	
B6 4200.00																				
CHOWCHILLA RIVER NEAR RAYMOND																				
05/06/69 1230	5050 5050	571.02		9.9	70 F	7.7 7.3	130	12 0.60	2.9 0.24	11 0.48	1.7 0.04	0	65 1.06	2.0 0.04	6.3 0.18	0.0 0.00		1.3	104	42 0
09/16/69 1015	5050 5050	567.87		9.7	72 F	7.8 7.8	372 320	30 1.50	6.6 0.54	33 1.44	2.7 0.07	0	116 1.90	1.0 0.02	62 1.75	0.0 0.00		0.0	207	102 7

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAT LONG	G.T.	MO SAT	TEMP	PH FLY	EC 140 FLY	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						
							Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SiO ₂	TUS SUM	T NCH				
HO 075.00 SALT SLURRY AT SAN LUIS RANCH																								
10/02/69 0840	5 55 5 55			7.4 7.1	F C	7.4 7.3	117 120	48 22	24 20	142 57	6.1 1	0.0	184 202	114 217	193 5.44	3.7 1.06	--	0.4	--	624 623	229 78			
05/07/69 0835	5 55 5 55			7.4 7.2	F C	985	63 314	10 15	130 52	5.4 15	0.0	115 1.89	191 3.97	144 3.75	5.2 1.08	--	1.0	--	634 601	235 141				
09/16/69 1250	5 55 5 55			7.3 7.3	F C	7.2	1100 850	54 25	23 18	144 64	5.0 1	0.0	186 204	150 29	145 4.65	6.8 1.1	--	0.7	--	676 636	231 79			
HO 315.00 STANISLAUS RIVER AT KOETITZ RANCH																								
10/02/68 0845	5 55 5 55			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.4 1.4	--	--	--	--
10/03/68 0845	5 55 5 55	24.21	7.6 65	6.4 21	F C	7.3	235	18 39	8.5 30	15 28	3.3 3	0.0	103 1.69	12 25	7.6 2.21	7.4 1.12	--	0.0	--	132 122	80 0			
05/08/69 0900	5 55 5 55	27.49	11.4 109	6.1 16	F C	7.2	57	2.9 48	2.1 28	2.6 18	1.2 5	0.0	30 94	0.0 6	1.2 1.03	0.3 6	--	0.1	--	48 28	23 0			
09/17/69 1250	5 55 5 55	24.28	4.1 195	7.1 23	F C	7.4	179 160	15 75	6.4 53	10 44	2.1 3	0.0	79 1.30	9.7 20	6.0 1.17	7.0 1.11	--	0.0	--	118 95	64 0			
HO 4105.00 TUOLUMNE RIVER AT TUOLUMNE CITY																								
10/02/68 0820	5 55 5 55			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.9 1.09	--	--	--	--
10/02/68 1440	5 55 5 55	285	4.1 46	7.2 22	F C	7.2	924	48 28	15 15	105 64	10 3	0.0	178 2.92	13 27	176 4.96	14 2.3	--	0.2	--	496 468	181 35			
05/08/69 1010	5 55 5 55	24.45	5.3 92	6.2 17	F C	7.3	148	10 37	3.4 22	1.2 38	1.5 0.4	0.0	41 52	0.4 2	2.0 4.4	2.1 2	--	0.1	--	100 70	40 7			
09/17/69 1215	5 55 5 55		7.0 81	7.2 22	F C	7.3	509 420	31 32	11 18	5.6 48	4.4 2	0.0	109 1.74	8.4 17	10.4 2.93	9.3 1.3	--	0.0	--	316 275	124 35			
HO 4150.00 TUOLUMNE RIVER AT WICKMAY BRIDGE																								
10/03/68 1400	5 55 5 55		4.3 111	7.1 21	F C	7.4	540	26 28	9.7 17	6.6 62	5.4 3	0.0	109 1.77	3.8 2	9.8 2.76	1.4 1.02	--	0.1	--	297 253	105 17			
05/09/69 1000	5 55 5 55	23.35	11.4 111	5.7 14	F C	7.1	70	0.2 31	1.3 11	4.5 20	0.7 0.2	0.0	23 38	1.0 1.02	8.9 2.25	0.1 38	--	0.0	--	31 34	21 2			
09/17/69 0800	5 55 5 55		4.5 95	6.4 21	F C	7.4	472 380	27 30	11 26	4.4 2.09	4.4 1.1	0.0	100 1.64	2.3 1	9.3 2.62	2.8 1.05	--	0.0	--	328 238	114 32			
HO 5125.00 MEXICO RIVER NEAR STEVENSUN																								
10/02/68 0625	5 55 5 55			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.1 1.10	--	--	--	--
10/03/68 0930	5 55 5 55		5.5 91	6.1 17	F C	7.2	166 153	12 37	4.1 21	14 38	2.5 4	0.0	72 76	5.3 1.2	6.5 9.12	5.2 5	--	0.0	--	83 85	47 0			
10/03/68 1000	5 55 5 55		6.7 17	6.1 C		293 306	--	--	30 1.31	--	--	0.0	113 1.85	--	2.2 1.62	5.8 1.08	--	0.0	--	--	79 0			
05/07/69 0935	5 55 5 55		11.5 104	5.4 15	F C	6.6	66 72	7.3 36	2.2 18	3.1 13	0.6 0.2	0.0	30 44	3.4 1.07	1.5 1.04	0.7 0.01	--	0.6	--	58 34	27 3			
09/16/69 1430	5 55 5 55		4.2 101	7 21	F C	7.2	54 50	4.4 39	2.0 19	2.4 16	1.1 5	0.0	24 87	1.5 6	1.0 6	0.4 1	--	0.0	--	21 38	24 1			

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	L.S.M. SAMPLE	TEMP	PH	FC L/100	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER PERCENT REACTIVE VALUE				MILLIGRAMS PER LITER TDS				
					Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SiO ₂	TOC	TN			
NO 7 2016 SAN JOAQUIN RIVER NEAR VERVALIS																					
10/02/68	5 50 0910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--	--	--	
10/03/68	5 50 1230	17.02	64 F 21 C	6.1	933	--	--	1.0 4.70	--	0.0	174 7.92	--	154 4.23	8.2 .13	--	0.2	--	--	215	69	
10/09/68	5 50 0845	7.1	61 F 16 C	7.4	965	48	21	115 5.0	5.0	0.0	144 7.12	73	154 4.23	8.4 .14	0.2	0.3	26	--	214	59	
11/06/68	5 50 1000	17.23	7.0 54 F 7.4 14 C	7.4	574	24	14	2.7 1.1	4.1	0.0	133 7.18	63	84 2.37	3.9 .08	0.1	0.1	13	--	128	14	
12/11/68	5 50 1015	7.5	52 F 11 C	7.7	590	23	14	7.3 1.07	2.8	0.0	75 4.20	45	94 2.65	0.6 .01	0.3	.29	2.9	--	115	44	
01/17/69	5 50 5 50	14.00	45 F 9 C	6.9	218	12	5.7	22 1.0	2.5	0.0	54 3.0	20	22 .62	3.4 .05	0.2	0.1	12	--	54	7	
02/13/69	5 50 1100	9.5	--	7.4	248	15	6.4	24 1.0	2.0	0.0	62 3.4	28	25 .71	2.3 .04	0.1	0.0	14	154	64	13	
03/19/69	5 50 1045	28.30	55 F 13 C	7.5	307	18	7.0	32 1.4	1.8	0.0	72 4.1	34	31 .87	2.1 .03	0.2	0.2	14	--	70	19	
04/02/69	5 50 1135	28.32	7.4	--	7.3	290	17	6.9 3.0	2.0	1.5	0.0	64 3.6	39 1.1	2.7 .74	1.6 .03	0.2	0.2	11	--	71	19
05/07/69	5 50 1230	24.72	47 67 F 26.5 19 C	7.1	163	11	4.0	14 1.3	1.3	0.0	48 2.7	13	17 .48	1.9 .03	0.1	.01	14	--	44	5	
05/04/69	5 50 0950	26.93	84 67 F 94 21 C	6.3	92	6.5	2.3	7.5 1.0	0.9	0.0	24 1.3	8.0	9.4 .24	0.1 .02	0.0	.12	11	--	26	5	
07/09/69	5 50 0720	19.30	7.3 71 F 90 22 C	7.7	255	18	6.1	24 1.0	1.7	0.0	42 2.3	23	34 .94	3.1 .05	0.3	.05	12	--	70	19	
09/07/69	5 50 0730	14.01	58 74 F 69 23 C	7.4	673	35	14	7.3 1.0	3.4	0.0	140 7.3	43	94 2.7	2.4 .04	0.2	.20	17	--	154	39	
09/17/69	5 50 1430	14.00	42 72 F 95 22 C	7.5	544	30	13	67 2.9	2.9	0.0	121 6.8	45	71 2.00	4.8 .08	0.1	.15	18	--	128	29	
NO 7 2016 SAN JOAQUIN RIVER AT WAZE ROAD BRIDGE																					
10/02/68	5 50 0915	--	--	--	--	--	--	--	--	--	--	--	--	--	7.3	--	--	--	--	--	
10/03/68	5 50 1310	16.70	71 F 124 22 C	7.7	1100	47	25	133 5.70	7.1	0.0	146 7.21	85	177 4.99	9.3 .15	--	0.3	--	577	220	60	
05/08/69	5 50 0820	20.31	44 64 F 94 14 C	7.0	173	12	3.0	15 1.0	1.5	0.0	44 2.5	13	10 .27	1.7 .04	--	0.1	--	49	46	9	
09/17/69	5 50 1345	7.7	73 F 21 C	7.3	457	26	19	67 3.0	3.0	0.0	127 7.4	34	62 1.76	5.4 .08	--	0.1	--	271	113	9	
NO 7 2016 SAN JOAQUIN RIVER NEAR BRATSON																					
10/02/68	5 50 0800	4.7	65 F 14 C	8.1	1120	45	27	141 5.9	5.9	0.0	196 3.21	119	170 4.79	9.1 .15	--	0.4	--	608	224	64	
10/02/68	5 50 0801	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	
01/17/69	5 50 1000	9.5	44 F 9 C	7.4	498	--	--	61 2.65	--	0.0	93 5.3	--	67 1.61	--	0.4	--	--	101	25	--	
05/09/69	5 50 1105	4.9	65 F 18 C	7.3	161	11	4.0	15 1.0	1.6	0.0	64 3.7	17	15 .42	2.4 .04	--	0.1	--	41	44	8	
07/08/69	5 50 1250	7.2	74 F 24 C	7.5	223	--	--	22 1.0	--	0.0	34 2.0	--	21 .55	--	0.1	--	--	57	13	--	

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	STA SAMPLE	LAT LONG	TEMP SAT	WV LAH FLU	EC LAH FLU	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS TH				
						Ca	Mg	K	Na	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	SiO ₂	SUM	NCH
SAN JOAQUIN RIVER NEAR GRAYSON CONTINUED																		
04/17/64	5-52	7.0	72 F	7.3	400	--	--	85	--	0.0	1.04	--	45	--	--	0.1	--	95
11.40	5-52	84	22 C	7.6	280	--	--	1.04	--	1.77	--	1.27	--	--	--	--	--	7
								49				44						
SAN JOAQUIN RIVER AT PATTERSON BRIDGE																		
10/02/64	5-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0770	5-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/02/64	5-52	17.5	71 F	7.9	900	42	21	126	5.2	0.0	174	99	149	7.2	--	0.3	--	548
0900	5-52	488	12.1	21 C	7.2	2.10	1.73	5.48	.13		2.92	2.05	4.20	.12				537
						22	18	58	1		31	22	45	1				47
05/09/64	5-52	7.3	84 F	7.1	170	11	4.5	14	1.6	0.0	44	17	17	1.5	--	0.1	--	99
1220	5-52	104	21 C	7.3		.95	.37	.41	.04		.72	.35	.44	.02				98
						35	24	39	3		4.6	2.2	31	1				46
09/17/69	5-52	9.4	73 F	7.5	319	18	8.6	36	2.3	0.0	99	27	34	2.8	--	0.1	--	187
1040	5-52	110	23 C	7.4	270	.90	.64	1.67	.06		1.62	.65	.94	.05				177
						28	21	49	2		.51	.18	.30	.2				0
SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE																		
10/02/64	5-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0700	5-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/64	5-52	4.5	71 F	7.9	1020	42	24	174	5.2	0.0	183	103	149	7.1	--	0.3	--	545
0855	5-52	415	10.7	21 C	7.2	2.10	1.97	5.39	.13		3.00	2.14	4.20	.11				544
						22	21	64	1		32	23	44	1				55
01/17/69	5-52	45.55	9.6	47 F	7.7	495	--	--	6.0	--	0.0	H7	--	6.0	--	0.4	--	101
0920	5-52		77	H C					2.61		1.43		1.69					30
									52		28		34					
05/09/69	5-52	4.1	64 F	7.0	192	12	4.1	15	1.7	0.0	45	19	1.3	--	0.2	--	102	
1300	5-52	102	21 C	7.3		.90	.34	.65	.04		.74	.37	.54	.02				93
						37	21	40	2		4.4	2.2	32	1				47
07/08/69	5-52	4.4	78 F	7.3	229	--	--	24	--	0.0	52	--	26	--	0.1	--	--	55
1005	5-52	45	24 C	7.2	193			1.04			.85		.73					13
								45			.37		.31					
09/17/69	5-52	8.2	49 F	7.5	295	--	--	32	--	0.0	80	--	34	--	0.0	--	--	74
1015	5-52	92	21 C	7.4	260			1.39			1.31		.95					9
								47			4.4		32					
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																		
10/02/64	5-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0645	5-52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/02/64	5-52	55.22	71 F	7.6	1450	56	33	192	7.4	0.0	216	137	263	3.9	--	0.4	--	819
1100	5-52	123	21 C	7.9	1450	2.79	2.71	7.92	.19		3.54	2.45	7.42	.08				789
						20	20	64	1		26	21	53					99
05/07/64	5-52	45.52	7.2	64 F	7.4	74	7.4	1.8	5.1	0.9	0.0	34	1.6	3.3	0.1	--	0.0	--
1045	5-52	102	19 C	7.3		.37	.15	.22	.02		.56	.03	.09					72
						49	20	29	3		82	4	13					26
09/16/69	5-52	57.42	8.2	73 F	7.3	444	24	11	51	3.0	0.0	126	40	53	2.6	--	0.1	--
1450	5-52	94	24 C	7.4	360	1.20	.99	2.22	.06		2.07	.83	1.49	.04				259
						27	20	50	2		.47	.19	.34	1				104
																		1
SAN JOAQUIN RIVER NEAR MENDOTA																		
05/07/69	5-52	12.43	11.1	43 F	7.3	53	5.1	1.3	3.1	1.0	0.0	27	1.0	1.4	0.1	--	0.0	--
0655	5-52	106	17 C	7.0		.25	.11	.13	.03		.44	.42	.04					50
						44	21	25	6		.88	.62	.04					26
																		0
09/04/69	5-52	4.74	8.4	85 F	7.5	356	20	18	76	2.3	0.0	99	31	43	3.2	--	0.1	--
1315	5-52	117	29 C	7.6	363	1.00	.82	1.57	.06		1.62	.44	1.21	.05				208
						29	24	44	2		4.6	.19	.34	1				91
																		10
SAN JOAQUIN RIVER BELOW FRIANT DAM																		
10/06/64	5-52	2.23	13.1	57 F	7.2	45	9.0	0.2	3.1	0.7	0.0	14	0.5	0.9	1.7	--	0.1	--
1250	5-52	127	14 C	7.3		.20	.12	.13	.02		.26	.01	.03					26
						54	5	35	5		.87	.3	.10					18
																		0
05/08/64	5-52	5.32	12.7	94 F	7.9	44	3.9	0.4	1.7	0.9	0.0	20	0.5	1.4	0.5	--	0.1	--
1030	5-52	114	24 C	7.4		.14	.05	.14	.02		.33	.01	.05	.01				29
						45	12	34	5		.83	.3	.13	.3				22
																		0
09/14/69	5-52	1.96	11.7	54 F	7.6	27	--	--	1.4	--	0.0	12	--	0.8	--	0.0	--	10
0805	5-52	105	14 C	7.4		.14	.07				.17		.02					0
											.25		.7					

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. 2	DO SAT	TEMP	PH LAB PLD	EC LAB PLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER			
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SiO ₂	TDS SUM
n5 1375.50 NEAR CHEEK AT Oak ROAD																			
09/22/69	500 5055			--	--	230	--	--	--	--	--	--	2.9 1.08 3	1.4 0.02	--	--	--	--	--
n5 1380.50 NEAR CHEEK NEAR BEAR CREEK SCHOOL																			
07/25/69	5000 5055			--	--	--	27 1.35	10 0.42	--	--	--	--	7.2 1.20	--	--	--	--	--	108 108
B9 5925.00 DELTA MENDOTA CANAL NEAR TRACY																			
10/09/68	5050 0855				8.1	361	17 0.85	12 0.99	32 1.39	2.2 0.06	0 0.00	105 1.72	23 0.48	37 1.04	2.8 0.04	0.1		196	92 6
11/06/68	5050 0935				7.8	458	19 0.95	13 1.05	42 1.83	2.9 0.07	0 0.00	100 1.64	27 0.56	57 1.61	6.1 0.10	0.2		226	100 18
12/11/68	5050 5050				8.1	952	41 2.04	23 1.88	114 4.96	5.1 0.13	0 0.00	153 2.51	102 2.12	150 4.23	9.0 0.14	0.6		530	196 71
02/05/69	5050 1045				7.5	254	8.5 0.42	11 0.90	25 1.09	2.6 0.07	0 0.00	61 1.00	26 0.54	28 0.79	3.2 0.05	0.2		161	66 16
03/05/69	5050 1105				7.7	295	17 0.85	8.4 0.69	27 1.17	2.1 0.05	0 0.00	71 1.16	33 0.69	30 0.85	5.3 0.08	0.2		184	77 19
04/09/69	5050 5050				7.9	266	16 0.80	5.8 0.48	25 1.09	1.6 0.04	0 0.00	58 0.95	27 0.56	31 0.87	2.6 0.04	0.2		172	64 16
05/07/69	5050 5050				8.8	236	14 0.70	4.9 0.40	22 0.96	1.0 0.02	5 0.17	44 0.72	24 0.50	26 0.73	0.0 0.00	0.2		123	55 13
06/04/69	5050 5050				7.6	206	12 0.60	5.4 0.44	21 0.91	1.2 0.03	0 0.00	35 0.57	33 0.69	22 0.62	2.1 0.03	0.1		130	52 23
07/02/69	5050 1230				7.7	246	6.2 0.31	12 0.97	23 1.00	1.3 0.03	0 0.00	57 0.93	23 0.48	33 0.93	32 0.05	0.2		163	64 17
08/06/69	5050 5050				7.5	255	15 0.75	7.4 0.61	23 1.00	2.3 0.06	0 0.00	68 1.11	24 0.50	28 0.79	1.9 0.03	0.2		113	68 12
09/10/69	5050 1230				7.4	440	24 1.20	11 0.90	48 2.09	2.6 0.07	0 0.00	101 1.66	34 0.71	60 1.69	4.9 0.08	0.2		241	105 22
09/17/69	5050 1530				7.6	448			48 2.09		0 0.00	112 1.84		58 1.64	0.1			108	16

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE	LAD	G.M.	JO	TEMP	PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER					
							CA	MG	NA	K	PERCENT	REACTANCE	VALUE	CO ₃	HCO ₃	SO ₄	CL	F	SiO ₂	TDS
TIME	SAMPLE	NO.	SAT		LAB	LAB	FLD	FLD									SUM	YCM		
CO 1140.00																				
KIVUS RIVER FLOW PEOPLES WEIH																				
7/06/69	505A	4.95	10.7	48	F	7.4	114	--	--	6.7	--	0.0	54	--	3.7	--	--	0.0	--	41
1330	505B		92	4	C	7.4				.29			.89		.10					0
										25			78		8					0
7/06/69	505A	14.72	14.5	56	F	7.1	51	2.6	1.4	2.7	0.9	0.0	24	2.0	1.1	0.2	--	0.9	--	35
0850	505B		123	13	C	7.1		.28	.12	.12	.02		.39	.04	.03					20
								.52	.22	.22	.4		.85	.9	.7					1
7/07/69	505A	13.00	6.6	56	F	7.0	28	--	--	1.3	--	0.0	13	--	0.7	--	--	0.0	--	12
0940	505B		106	18	C	6.8	30			.66			.21		.02					2
										.21			.75		.7					0
7/08/69	505A	9.7	6.6	56	F	7.4	47	--	--	2.4	--	0.0	23	--	1.2	--	--	0.0	--	17
1055	505B		105	19	C	7.1	38			.10			.38		.03					0
										.21			.40		.6					0
CO 2185.00																				
KAWEAM RIVER FLOW TERMINUS DAM																				
7/04/69	505A	6.12	7.3	70	F	7.5	82	11	1.4	2.6	1.3	0.0	35	6.4	1.8	0.2	--	0.0	--	46
0845	505B		83	21	C			.95	.13	.11	.03		.57	.13	.05					34
								.97	.14	.13	.4		.76	.17	.7					6
CO 3196.00																				
TULE RIVER FLOW SUCCESS DAM																				
7/08/68	505A	2.38	8.5	65	F	8.1	319	--	--	17	--	0.0	184	--	7.4	--	--	0.0	--	137
0910	505B		91	18	C					.74			.02		.21					0
										.23			.97		.6					0
7/04/68	505A	2.35	4.4	64	F	8.4	352	--	--	18	--	5.0	188	--	8.7	--	--	0.2	--	142
1325	505B		104	14	C					.78			.17	.08	.25					0
										.22			.4	.87						0
7/17/68	505A	3.49	11.1	50	F	8.3	366	--	--	19	--	0.0	199	--	9.5	--	--	0.1	--	141
1425	505B		98	10	C					.43			.26		.27					0
										.22			.89		.7					0
7/06/69	505A	2.68	12.5	48	F	8.3	325	--	--	18	--	0.0	185	--	9.7	--	--	0.0	--	137
1050	505B		108	9	C					.78			.03		.27					0
										.24			.43		.8					0
7/10/69	505A	6.74	12.7	48	F	7.5	131	--	--	7.0	--	0.0	66	--	3.8	--	--	0.0	--	52
1445	505B		104	9	C					.30			.08		.11					0
										.22			.82		.8					0
7/04/69	505A	4.42	12.7	48	F	8.1	139	--	--	7.3	--	0.0	70	--	3.6	--	--	0.0	--	63
1000	505B		109	4	C					.32			.15		.10					6
										.23			.82		.7					0
7/07/69	505A	7.42	11.4	54	F	7.5	137	--	--	6.4	--	0.0	67	--	7.4	--	--	0.0	--	55
1000	505B		111	12	C					.28			.10		.10					0
										.20			.80		.7					0
5/05/69	505A	6.15	11.3	58	F	8.0	115	13	2.8	6.7	1.6	0.0	59	3.0	2.8	0.3	--	1.3	--	93
1120	505B		562	111	14	C		.65	.23	.29	.04		.97	.05	.08					44
								.54	.19	.24	.3		.87	.5	.7					0
6/03/69	505A	7.12	10.6	62	F	7.4	100	--	--	5.2	--	0.0	53	--	3.4	--	--	0.0	--	38
0945	505B		1052	104	17	C			.23	.87			.87		.10					0
										.23			.87		.10					0
7/07/69	505A	6.25	9.7	66	F	7.5	102	--	--	5.1	--	0.0	55	--	2.0	--	--	0.0	--	40
1115	505B		111	105	19	C			.22	.22			.98		.06					0
										.21			.84		.5					0
8/04/69	505A	6.33	8.4	70	F	7.5	107	--	--	4.1	--	0.0	57	--	2.4	--	--	0.0	--	44
1000	505B		542	95	21	C			.22	.22			.43		.07					0
										.20			.86		.6					0
9/08/69	505A	4.46	8.8	78	F	7.2	148	14	4.0	6.3	1.7	0.0	83	1.6	3.0	0.2	--	0.0	--	64
1040	505B		151	104	26	C		.95	.33	.27	.04		1.36	.03	.08					64
								.90	.21	.17	.3		.93	.2	.5					0

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS SUM					TH NCH		
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SiO ₂					
C1 1320.00							BIG CREEK ABOVE PINE FLAT DAM																
10/14/68 1100	5050 5002	1.43 10	10.0	64 F	7.0	185					15 0.65	0.0	57 0.93	20 0.56					0.1				58 0
11/12/68 1030	5050 5002	1.35 52	1.1	56 F	7.6	136					11 0.48	0.0	46 0.75	13 0.04					0.0				38 0
12/09/68	5050 5002				7.8	125					1.1 0.48	0.0	45 0.94	11 0.31					0.0				38 0
01/13/69 1000	5050 5002	1.71 35	11.0	46 F	7.6	90					7.2 0.31	0.0	40 0.66	5.0 0.14					0.0				27 0
02/10/69 1030	5050 5002	3.20 300	12.0	43 F	7.6	83					5.3 0.23	0.0	39 0.64	2.0 0.06					0.0				30 5
03/10/69 1045	5050 5002	3.30 284	12.2	44 F	7.7	88					5.4 0.23	0.0	44 0.72	1.9 0.05					0.0				29 0
04/14/69 1100	5050 5002	3.52 375	11.5	50 F	7.2	62					4.2 0.18	0.0	33 0.54	1.2 0.03					0.0				22 0
05/12/69 1100	5050 5002	3.22 148	11.0	56 F	7.5	48	4.1 0.20	1.4 0.12	3.1 0.13	1.2 0.03	0.0	26 0.43	0.6 0.01	1.2 0.03	0.0 0.00				0.1		54	16 0	
06/10/69 1000	5050 5002	2.65 109	9.5	68 F	7.2	69					4.7 0.20	0.0	36 0.59	3.5 0.10					0.0				23 0
07/14/69 1200	5050 5002	1.04 25	10.0	72 F	7.0	81					6.2 0.27	0.0	43 0.70	2.6 0.07					0.0				27 0
08/04/69	5050 5002				7.7	90					7.2 0.31	0.0	45 0.74	4.0 0.11					0.2				26 0
09/08/69 1125	5050 5002	1.33 50	9.7	75 F	7.8	106					8.6 0.37	0.0	51 0.84	5.4 0.15					0.0				34 0
C2 1250.00							KAWEAH RIVER NEAR THREE RIVERS																
10/07/68 1025	5050 5002	1.87	9.4	66 F	7.8	160					9.9 0.43	0	73 0.00	9.0 0.25					0.0				59 0
11/04/68 0905	5050 5002	3.15	10.9	55 F	7.6	111					6.3 0.27	0	52 0.85	4.2 0.12					0.1				42 0
12/09/68 1050	5050 5002	2.46	12.4	46 F	8.0	130					6.4 0.28	0	59 0.97	4.9 0.14					0.0				48 0
01/06/69 1015	5050 5002	3.49	12.5	44 F	7.6	98					5.0 0.22	0	49 0.80	3.2 0.09					0.0				40 0
02/06/69 1440	5050 5002	6.12	12.5	43 F	7.5	94					4.6 0.20	0	45 0.74	2.7 0.08					0.0				38 1
03/05/69 0905	5050 5002	5.93	12.8	45 F	8.0	130					5.5 0.24	0	64 1.05	2.4 0.07					0.0				56 4
04/07/69 1055	5050 5002	6.44	12.3	46 F	7.8	84					4.2 0.18	0	42 0.69	1.5 0.04					0.0				30 0
05/05/69 1320	5050 5002	6.56	12.9	52 F	7.6	52	6.4 0.32	1.2 0.10	2.4 0.10	0.9 0.02	0.0	27 0.44	1.5 0.03	1.0 0.03	0.0 0.00				0.5		51	21 0	
06/03/69 0950	5050 5002	8.16	11.8	52 F	6.8	28					1.2 0.05	0	13 0.21	0.7 0.02					0.0				10 0
07/07/69 0900	5050 5002	6.60	10.0	56 F	7.0	32					1.3 0.06	0	17 0.28	0.7 0.02					0.0				12 0
08/04/69 0945	5050 5002	5.47	9.2	63 F	7.3	39					1.7 0.07	0	19 0.31	1.2 0.03					0.0				15 0
09/08/69	5050 5002	3.22	9.0	69 F	8.2	79					3.8 0.16	0	41 0.67	2.3 0.06					0.0				30 0

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	L&M SAMPLE	G.W. ?	DU SAT	TEMP	PH	FC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER					LITR TDS	TH NCH	
							MG FLD	MG FLD	MG CA	MG Mg	MG K	MG Na	MG K	MG CO ₃	MG HCO ₃	MG SO ₄	MG CL	MG NO ₃	MG F			MG M
		CG 5150.00				KCAN RIVER NEAR BAKERSFIELD																
9/02/69	5050		70	F	8.2	71	7.3	1.4	4.7	1.3	0.0	35	2.5	1.9	0.2	--	0.0	--	46	24		
1100	5033		71	C			31	17	28	.03	4	47	.05	.05	7				36	0		
		CI 1140.00				KINGS RIVER BELOW PINF FL4T																
0/14/68	5050	.72	94	62	F	6.9	33	--	--	1.8	--	0.0	14	--	0.7	--	--	0.0	--	12		
0920	5002	52	14	17	C					.18			.23		.02					1		
										.24			.69		.6							
1/12/68	5050	.72	10.9	60	F	7.0	33	--	--	1.7	--	0.0	15	--	0.7	--	--	0.0	--	12		
0900	5002	52	110	16	C					.07			.25		.02					0		
										.21			.75		.4							
2/09/68	5050				--	7.3	32	--	--	1.7	--	0.0	14	--	0.7	--	--	0.0	--	13		
	5002									.17			.24		.02					0		
										.21			.81		.4							
11/13/69	5050	2.11	12.0	53	F	6.9	36	--	--	1.8	--	0.0	14	--	0.9	--	--	0.0	--	18		
1250	5002	286	111	12	C					.08			.26		.03					5		
										.22			.72		.4							
02/10/69	5050	4.00	12.5	44	F	7.3	44	--	--	2.0	--	0.0	20	--	1.4	--	--	0.0	--	19		
0920	5002	3620	104	9	C					.09			.13		.04					3		
										.20			.75		.9							
03/10/69	5050	6.40	13.0	44	F	7.5	51	--	--	2.5	--	0.0	24	--	1.1	--	--	0.0	--	21		
0900	5002	5220	109	8	C					.11			.39		.03					2		
										.21			.76		.5							
04/14/69	5050	7.64	12.0	51	F	7.3	59	--	--	2.9	--	0.0	27	--	1.2	--	--	0.3	--	22		
0910	5002	7296	104	11	C					.13			.44		.03					0		
										.22			.74		.5							
05/12/69	5050	8.53	12.0	50	F	7.1	40	4.5	0.7	1.8	0.8	0.0	19	1.2	1.5	0.2	--	0.0	--	26		
0940	5002	9948	106	10	C			.22	.06	.08	.02		.31	.02	.04					14		
								.58	.14	.21	.5		.86	.5	.11					20		
06/10/69	5050	10.67	11.5	56	F	6.9	24	--	--	1.3	--	0.0	12	--	0.9	--	--	0.0	--	8		
1330	5002	16800	110	13	C					.06			.20		.03					0		
										.25			.83		.12							
07/14/69	5050	9.51	10.1	60	F	6.4	19	--	--	1.0	--	0.0	9.0	--	0.7	--	--	0.0	--	9		
1310	5002	10000	102	16	C					.04			.15		.02					2		
										.21			.78		.10							
08/09/69	5050				--	6.4	29	--	--	0.6	--	0.0	6.0	--	0.5	--	--	0.0	--	7		
	5002									.09			.10		.3					1		
										.10			.34		.3							
09/09/69	5050	4.43	10.2	68	F	7.4	22	--	--	1.0	--	0.0	11	--	0.5	--	--	0.0	--	9		
1200	5002	4340	113	20	C					.14			.18		.01					0		
										.18			.81		.4							
		CI 1460.00				KINGS RIVER BELOW NORTH FORK																
10/14/68	5050	7.43	10.1	60	F	7.3	62	--	--	4.0	--	0.0	27	--	2.1	--	--	0.0	--	22		
1145	5002	610	102	16	C					.17			.44		.06					0		
										.27			.70		.9							
11/12/68	5050	2.44	11.5	56	F	7.3	47	--	--	3.1	--	0.0	20	--	1.8	--	--	0.0	--	15		
1120	5002	70	104	12	C					.13			.33		.05					0		
										.27			.70		.10							
12/09/68	5050				--	7.5	52	--	--	3.4	--	0.0	23	--	2.0	--	--	0.0	--	19		
	5002									.15			.38		.06					0		
										.28			.73		.11							
01/13/69	5050	3.23	12.0	46	F	7.5	43	--	--	3.0	--	0.0	21	--	1.8	--	--	0.0	--	19		
1100	5002	649	101	8	C					.13			.34		.05					2		
										.30			.79		.11							
02/19/69	5050	4.62	12.0	44	F	7.2	67	--	--	3.5	--	0.0	31	--	1.4	--	--	0.0	--	27		
1130	5002	1444	98	7	C					.15			.51		.04					2		
										.22			.76		.5							
03/10/69	5050	4.80	11.4	44	F	7.7	78	--	--	3.9	--	0.0	38	--	1.4	--	--	0.0	--	30		
1200	5002	1540	96	7	C					.17			.62		.04					0		
										.21			.79		.5							
04/14/69	5050	7.18	12.0	48	F	7.0	44	--	--	2.7	--	0.0	21	--	0.8	--	--	0.1	--	16		
1145	5002	4560	103	9	C					.12			.34		.02					0		
										.27			.77		.4							
05/12/69	5050	10.42	11.0	50	F	7.3	25	2.7	0.4	1.3	0.6	0.0	12	0.8	0.6	0.4	--	0.1	--	31		
1210	5002	1444	97	10	C			.13	.03	.04	.02		.20	.02	.01					8		
								.54	.13	.25	.8		.80	.8	.4					13		
06/10/69	5050	10.17	12.0	46	F	6.9	19	--	--	1.0	--	0.0	9.0	--	1.2	--	--	0.0	--	6		
1100	5002	1261	101	8	C					.04			.15		.33					0		
										.21			.78		.15							
07/14/69	5050	9.69	11.2	56	F	6.4	15	--	--	0.8	--	0.0	4.0	--	0.5	--	--	0.0	--	7		
1110	5002	9420	94	13	C					.03			.13		.01					1		
										.20			.86		.4							

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAH SAMPLE#	G.M. D	MO SAT	TEMP	PH LA5 FL3	FC LAH FL0	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM					
							Ca	Mg	Na	K	CO3	HCO3	SO4	CL	NO3	F	SiO2	TDS SUM	TH MCH	
C1 1460.00							KINGS RIVER BELOW NORTH FORK							CONTINUED						
08/00/69	5050 5022			--	7.6	18	--	--	0.8 +3 16	--	0.0	4.0 +15 83	--	0.5 +01 5	--	--	0.0	--	--	6 0
09/08/69	5050 1350	4.28 425.	12.0 112	5A 12	F C	7.2	33	--	1.7 +07 21	--	0.0	16 +20 74	--	0.8 +02 6	--	--	0.0	--	--	12 0
C1 1354.30							RAITLESNAKE CREEK BELOW HURN (KINGS CANYON PARK)													
10/17/68	5050 5005			--	7.0	22	--	--	1.4 +04 27	--	0.0	9.0 +15 68	--	1.4 +04 18	--	--	--	--	--	7 0
08/24/69	5050 5005			--	6.9	17	--	--	1.3 +06 35	--	0.0	10 +16 94	--	1.0 +03 17	--	--	--	--	--	5 0
C1 1356.30							RAITLESNAKE CREEK ABOVE HURN (KINGS CANYON PARK)													
10/17/68	5050 5005			--	7.0	19	--	--	1.2 +05 26	--	0.0	8.0 +13 68	--	1.1 +03 15	--	--	--	--	--	6 0
08/24/69	5050 5005			--	6.6	14	--	--	1.1 +05 35	--	0.0	8.0 +13 92	--	1.0 +03 21	--	--	--	--	--	5 0
C3 1150.00							TULE RIVER NEAR SPRINGVILLE													
10/08/68	5050 0845	3.08	10.0 98	5B 14	F C	8.3	436	--	--	30 +31 30	--	0.0	246 +07 92	--	16 +45 10	--	0.1	--	--	170 0
11/04/68	5050 1100	3.38	9.4 91	57 14	F C	8.3	409	--	--	25 +09 26	--	9.0	215 +30 86	--	14 +39 9	--	0.3	--	--	168 0
12/17/68	5050 5002	3.50	11.3 91	43 14	F C	8.2	236	--	--	14 +01 25	--	0.0	132 +16 91	--	6.8 +19 8	--	0.0	--	--	94 0
01/06/69	5050 1020	3.89	11.9 97	44 7	F C	8.3	258	--	--	14 +01 23	--	0.0	145 +38 92	--	7.2 +20 7	--	0.0	--	--	108 0
02/10/69	5050 1425	5.54	10.5 96	52 11	F C	7.9	173	--	--	10 +04 25	--	0.0	88 +44 83	--	5.1 +14 8	--	0.0	--	--	76 4
03/04/69	5050 0932	5.49	11.9 97	44 7	F C	8.1	144	--	--	10 +03 24	--	0.0	72 +18 81	--	3.8 +11 7	--	0.0	--	--	58 0
04/07/69	5050 0945	6.09	11.2 96	44 8	F C	7.4	107	--	--	5.3 +23 21	--	0.0	55 +00 84	--	2.7 +08 7	--	0.0	--	--	39 0
05/05/69	5050 1050	5.50	10.8 98	52 11	F C	8.2	113	14	2.4 +20 58	6.3 +07 23	1.2 +03 3	0.0	60 +07 46	3.6 +07 6	2.4 +07 6	1.3 +02 2	--	1.1	--	98 62
06/03/69	5050 0915	5.28	10.4 91	48 16	F C	7.3	68	--	--	3.0 +13 19	--	0.0	37 +01 49	--	1.7 +05 7	--	0.0	--	--	26 0
07/07/69	5050 1175	4.74	11.1 91	64 18	F C	7.8	137	--	--	5.4 +08 20	--	0.0	81 +33 47	--	2.7 +08 5	--	0.0	--	--	59 0
08/04/69	5050 0850	4.13	12.1 91	70 21	F C	8.0	216	--	--	9.9 +03 19	--	0.0	139 +13 98	--	4.7 +13 6	--	0.0	--	--	92 0
09/08/69	5050 1015	3.46	11.4 89	66 19	F C	8.3	311	--	--	14 +20 22	--	0.0	184 +05 98	--	7.3 +21 6	--	0.1	--	--	135 0
C5 1350.00							KEMN RIVER BELOW ISARFLLA DAM													
09/04/69	5050 0800	3.44	10.1 91	40 20	F C	7.1	67	7.1 +35 50	1.4 +11 10	4.4 +19 27	1.2 +03 4	0.0	33 +04 86	2.3 +05 8	1.5 +04 6	0.2	--	0.0	--	43 34

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAT SAMPLER	LONG LAT	MO SAT	TEMP FL)	WIND FL)	PC FL)	MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS					
							Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	Br	SiO ₂	SUM	TR MCM	
CS 1500.00																					
KERN RIVER AT KERNVILLE																					
01/07/69 0945	5050 5002	3.16 24	11.5 06	38 3	F C	7.2	146	--	--	13 .57 39	--	0.0	65 1.07 73	--	5.4 .15 10	--	--	0.1	--	--	52 0
05/20/69 0900	5050 5002	9.60 7700	17.6 07	44 4	F C	4.2	46	3.1 .25 48	1.3 .11 21	3.1 .13 25	1.0 .03 5	0.0	23 .38 88	0.5 .01 2	0.8 .02 5	1.0 .02 5	--	0.1	--	50 24	18 0
07/07/69 1315	5050 5002	7.74 4141	14.6 97	62 16	F C	7.2	40	--	--	2.9 .13 32	--	0.0	19 .31 77	--	1.1 .03 7	--	--	0.0	--	--	15 0
09/04/69 0450	5050 5002	4.30 564	14.6 04	62 17	F C	4.3	88	--	--	7.2 .31 35	--	0.0	43 .71 80	--	2.4 .07 7	--	--	0.0	--	--	28 0

TABLE D-3
TRACE MINERAL ANALYSES OF SURFACE WATER

This table presents trace mineral analyses performed by the Department of Water Resources Laboratory or U. S. Geological Survey Laboratory. The following are definitions of chemical symbols and of abbreviations used in this table.

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	LI	Lithium
BE	Beryllium	MN	Manganese
BI	Bismuth	MO	Molybdenum
BR	Bromine	NI	Nickel
CD	Cadmium	PB	Lead
CO	Cobalt	SR	Strontium
CR	Chromium	TI	Titanium
CU	Copper	V	Vanadium
FE	Iron	ZN	Zinc
GA	Gallium		

Abbreviations

LAB	Laboratory	U	Micrograms per liter
	5000 U.S. Geological Survey	Y	Less than the amount indicated
	5050 Dept. of Water Resources		
M	Milligrams per liter		

TABLE 1-3

TRACE METALS ANALYSIS - PHASE 2

(Values in milligrams per liter unless indicated otherwise)

STATION NO.	DATE	LAB	FE	CU	NI	CO	ZN	CR	NI	CD	AS	SE	SI	P	MO
B0414.00	10-02-69														
B0411.00	10-01-69														
B0311.00	8-26-69														
B0311.00	9-17-69	1000	3.3UY			1.3UY	0.7UY		3.3UY	3.3UY	1.3UY	3.3UY	3.3UY	3.3UY	3.3UY
B04105.00	1-22-68			0.03											
B04105.00	05-28-69			0.00											
B04105.00	09-17-69	1000	3.3UY			1.3UY	0.7UY		3.3UY	3.3UY	1.3UY	3.3UY	3.3UY	3.3UY	3.3UY
B04150.00	10-03-68	500	0.05	0.01					0.00				0.00	0.00	0.02
B05125.00	10-03-68	1000	0.00	0.03					0.00				0.00	0.00	
B05125.00	05-07-69	1250	0.00	0.00					0.00				0.00	0.00	0.04
B05125.00	09-16-69	1000	5.5U			1.3UY	0.7UY		3.3UY	3.3UY	3.3UY	3.3UY	3.3UY	3.3UY	4.0U
B07020.00	13-09-68	5000		0.01										0.46	
B07020.00	11-26-68	1000		0.01Y										0.32	0.04
B07020.00	12-11-68	5000												0.01	
B07020.00	01-17-69	5000		0.01Y										0.09	
B07020.00	02-13-69	1000		0.02Y										0.04	
B07020.00	03-19-69	5000		0.02Y										0.21	0.04
B07020.00	04-02-69	5000												0.02	
B07020.00	05-07-69	5050	0.01	0.00					0.00				0.00		
B07020.00	05-07-69	5000		0.01Y										0.10	
B07020.00	06-04-69	5000		0.01Y										0.07	0.09
B07020.00	07-09-69	5000		0.01Y										0.17	0.01
B07020.00	08-07-69	5000		0.01										0.14	0.02
B07020.00	09-17-69	5000	3.3UY			1.3UY	0.7UY		3.3UY	3.3UY	3.3UY	3.3UY	3.3UY	3.3UY	13U
B07020.00	09-17-69	5000		0.01Y										0.39	0.16
B07040.00	10-03-68	5050	0.03	0.00					0.00				0.00	0.00	
B07060.00	10-02-68	5050	0.30	0.00					0.00				0.00	0.00	
B07200.00	10-02-68	5050	0.04	0.00					0.00				0.00	0.00	
B07250.00	10-03-68	5050	0.00	0.00					0.00				0.00	0.00	
B07375.00	10-02-68	5050	0.02	0.01					0.00				0.00	0.00	
B07375.00	05-07-69	1050	0.1	0.00					0.00				0.00	0.00	3.6
B07375.00	09-16-69	1000	28U			1.3UY	0.7UY		3.3UY	3.3UY	3.3UY	3.3UY	3.3UY	3.3UY	15U
B07685.00	10-04-68	1050	0.05	0.00					0.00				0.01	0.01	
B5138.00	07-25-69	1000												0.73	
C01140.00	05-26-69	5050	0.01	0.00					0.00				0.00	0.00	0.02

TABLE D-3 (Continued)
TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	SAM	AL MG	AS MG	BE MG	BI MG	BR MG	CD MG	CO MG	CR MG	CU MG	FE MG	GA MG	GE MG
001141	19-08-69	---	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	0.3UY 13UY	3.3UY --	33U --	13UY --	0.7UY --
001141	19-08-69	05"	-- 0.30	0.30 0.30	-- --	-- --	-- 0.00	-- --	-- --	-- 0.30	0.00 --	0.35 --	-- --	-- --
001141	19-08-69	000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	0.3UY 13UY	3.3UY --	180U --	13UY --	0.7UY --
001141	19-08-69	050	0.01 --	0.30 0.30	-- --	-- --	-- 0.01	-- --	-- --	-- 0.30	0.00 --	1.2 --	-- --	-- --
001141	19-08-69	0000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	0.3UY 13UY	3.3UY --	30U --	13UY --	0.7UY --
001141	19-08-69	0090	-- --	0.01 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --

TABLE D-3

CORRECTIONS AND REVISIONS TO
PREVIOUSLY PUBLISHED REPORTS

The following two tables show corrected tabulations for Tables D-3 in Bulletin No. 130-67, Part IV, page 275, and No. 130-68, Part IV, page 205. The tables are printed as complete replacements. Symbols and abbreviations used are listed on page 218.

TABLE D-3

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI RI	BR PB	CD TI	CO V	CR ZK	CU SR	FE	GA	OE
B0770.00	05-08-68	5050	0.00	0.00	--	--	0.01M	--	--	0.30	0.02M	0.07M	--	--
B03115.00	05-07-68	5050	0.03M	0.00	--	--	0.01M	--	--	0.30	0.01M	0.03M	--	--
B04104.00	05-07-68	5050	0.04M	0.01M	--	--	0.02M	--	--	0.00	0.00	0.04M	--	--
B05125.00	05-07-68	5050	0.04M	0.00	--	--	0.01M	--	--	0.01M	0.00	0.03M	--	--
B07020.00	10-04-67	5000	0.01M	--	--	--	--	--	--	--	0.3M	--	--	--
B07020.00	11-08-67	5000	0.01M	--	--	--	--	--	--	--	0.14M	--	--	--
B07020.00	12-16-67	5000	0.01M	--	--	--	--	--	--	--	0.22M	--	--	--
B07020.00	01-10-68	5000	0.00	--	--	--	--	--	--	--	0.3M	--	--	--
B07020.00	02-08-68	5000	0.01M	--	--	--	--	--	--	--	0.35M	--	--	--
B07020.00	03-06-68	5000	0.01M	--	--	--	--	--	--	--	0.26M	--	--	--
B07020.00	04-03-68	5000	0.01M	--	--	--	--	--	--	--	0.30M	--	--	--
B07020.00	05-08-68	5000	0.02M	--	--	--	--	--	--	--	0.64M	--	--	--
B07020.00	06-05-68	5000	0.01M	--	--	--	--	--	--	--	0.63M	--	--	--
B07020.00	07-03-68	5000	0.01M	--	--	--	--	--	--	--	0.65M	--	--	--
B07020.00	08-07-68	5000	0.01M	--	--	--	--	--	--	--	0.66M	--	--	--
B07020.00	09-04-68	5000	0.01M	--	--	--	--	--	--	--	0.50M	--	--	--
B07375.00	05-07-68	5050	0.03M	0.00	--	--	0.00	--	0.01M	--	0.00	0.03M	--	--
B07710.00	05-08-68	5050	0.00	0.01M	--	--	0.01M	--	--	0.00	0.00	0.10M	--	--
B64200.00	09-03-68	5050	0.03M	0.01	--	--	0.00	--	--	0.00	0.00	0.00	--	--
B94925.00	05-08-68	5050	0.00	0.00	--	--	0.02M	--	--	0.00	0.01M	0.06M	--	--
E01140.00	05-06-68	5050	0.00	0.00	--	--	0.00	--	--	0.01M	0.00	0.05M	--	--
E01140.00	09-09-68	5050	0.00	0.01M	--	--	0.00	--	--	0.00	0.00	0.01M	--	--
E02185.00	01-09-68	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
E02185.00	09-10-68	5050	0.00	0.02M	--	--	0.00	--	--	0.00	0.00	0.03M	--	--
E03196.00	01-08-68	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
E03196.00	09-03-68	5050	0.01M	0.00	--	--	0.00	--	--	0.00	0.00	0.00	--	--
E05150.00	05-03-68	5050	0.02M	0.01M	--	--	0.01M	--	--	0.01M	--	0.00	--	--
E05150.00	09-03-68	5050	0.00	0.00	--	--	0.02M	--	--	0.00	0.00	0.00	--	--
E11140.00	09-09-68	5050	0.06M	0.01M	--	--	0.00	--	--	0.00	0.01M	0.00	--	--
E11460.00	09-09-68	5050	0.00	0.00	--	--	0.00	--	--	0.01M	0.00	0.11M	--	--
E21250.00	01-09-68	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
E21250.00	09-10-68	5050	0.00	0.00	--	--	0.00	--	--	0.00	0.00	0.02M	--	--
E31150.00	01-08-68	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
E31150.00	05-06-68	5050	0.03M	0.01M	--	--	0.00	--	--	0.01M	0.00	0.04M	--	--
E31140.00	09-03-68	5050	0.01M	0.01M	--	--	0.03M	--	--	0.00	0.00	0.00	--	--
E51340.00	09-03-68	5050	0.03M	0.03M	--	--	0.00	--	--	0.00	0.00	0.00	--	--
E51500.00	09-03-68	5050	0.00	0.04M	--	--	0.00	--	--	0.00	0.00	0.00	--	--

TABLE D-3

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	EE MO	BI NI	BP PB	CD TI	CU V	CR ZN	CU SR	FE	GA	GE
B0475.00	04-23-67	505	--	3.30	--	--	--	--	--	--	--	--	--	--
B0475.00	04-11-67	505	--	3.30	--	--	--	--	--	--	--	--	--	--
B0773.00	05-28-67	505	--	3.03M	--	--	--	--	--	--	--	--	--	--
B0773.00	04-08-67	500	1.1U	1.4UY	1.6UY 2.8U	0.3UY 2.4U	--	1.4UY 0.6UY	1.4UY 2.5U	1.4UY 1.7U	1.4UY	17U	5.7UY	0.3UY
B0773.00	02-14-67	505	--	3.00	--	--	--	--	--	--	--	--	--	--
B07115.00	05-04-67	5000	1.27U	0.00 3.3UY	1.3UY 0.7UY	0.7UY 2U	--	3.3UY 1.8U	3.3UY 1.3U	3.3UY 13UY	3.3UY	11UY	13UY	0.6UY
B07115.00	05-11-67	5050	--	3.00	--	--	--	--	--	--	--	--	--	--
B04170.00	05-05-67	5000	15U	0.00 3.3UY	1.3UY 0.7UY	0.7UY 8.7U	--	3.3UY 1.3UY	6.7U 1.4U	3.3UY 13UY	3.3UY	18U	13UY	0.7UY
B04170.00	05-05-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B04170.00	02-11-67	5059	--	0.00	--	--	--	--	--	--	--	--	--	--
B04170.00	05-14-67	5057	--	0.00	--	--	--	--	--	--	--	--	--	--
B05120.00	04-03-67	5000	6.4UY	0.00 1.4UY	0.6UY 0.3UY	0.3UY 2.3U	--	1.4UY 1.5U	6.3U 1.1U	1.4UY 5.7UY	1.4UY	34U	5.7UY	0.3UY
B05120.00	05-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07020.00	10-25-66	5000	--	0.01M	--	--	--	--	--	--	0.140M	--	--	--
B07020.00	11-09-66	5000	--	0.02MY	--	--	--	--	--	--	0.20M	--	--	--
B07020.00	12-07-66	5000	--	0.02MY	--	--	--	--	--	--	0.13M	--	--	--
B07020.00	01-24-67	5000	--	0.01MY	--	--	--	--	--	--	0.32M	--	--	--
B07020.00	02-01-67	5000	--	0.01MY	--	--	--	--	--	--	0.16M	--	--	--
B07020.00	03-02-67	5000	--	0.01MY	--	--	--	--	--	--	0.20M	--	--	--
B07020.00	04-05-67	5000	--	0.01MY	--	--	--	--	--	--	0.20M	--	--	--
B07020.00	05-03-67	5000	103U	0.00 0.01UY	0.6UY 0.3UY	0.3UY 2.6U	1.4UY	1.4UY 3.1U	1.4UY 4.0U	1.4UY 5.7UY	1.4UY 0.11M	19UY	5.7UY	0.3UY
B07020.00	06-06-67	5000	--	0.01MY	--	--	--	--	--	--	0.110M	--	--	--
B07020.00	07-25-67	5000	--	0.01MY	--	--	--	--	--	--	0.25M	--	--	--
B07020.00	08-06-67	5000	--	0.02MY	--	--	--	--	--	--	0.13M	--	--	--
B07020.00	09-11-67	5000	--	0.01MY	--	--	--	--	--	--	0.310M	--	--	--
B07040.00	06-06-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07040.00	02-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07080.00	05-04-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07080.00	05-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07200.00	05-24-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07200.00	06-11-67	5050	--	0.01M	--	--	--	--	--	--	--	--	--	--
B07250.00	05-24-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07250.00	06-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--
B07375.00	04-03-67	5050	--	0.01M	--	--	--	--	--	--	--	--	--	--
B07375.00	04-03-67	5000	263U	--	0.6UY 0.3UY	0.3UY 2.2U	1.4UY	1.4UY 6.4U	1.4UY 3.4U	1.7U 5.7UY	11U	13UY	4.7UY	0.3UY
B07375.00	04-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--

TABLE D-3 (Continued)

STATION NO.	DATE	LAB	TRACE MINERAL ANALYSIS OF SURFACE WATER												
			AL LI	AS MH	BE MO	BI MI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	CA	GE	
B07710.00	05-08-67	5050	--	3.00	--	--	--	--	--	--	--	--	--	--	
B07710.00	09-14-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
B07885.00	05-08-67	5050	--	0.02M	--	--	--	--	--	--	--	--	--	--	
B07885.00	09-12-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
B64200.00	05-16-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
B64200.00	09-12-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
B67150.00	05-17-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
B67150.00	09-12-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
B95925.00	05-03-67	5000	80U	0.00	0.60Y	0.30Y	2.70Y	1.40Y	1.40Y	1.40Y	1.40Y	51U	5.70Y	0.30Y	
B95925.00	09-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C01140.00	05-08-67	5000	54U	0.00	0.60Y	0.30Y	1.80Y	1.40Y	1.40Y	1.40Y	1.40Y	31U	5.70Y	0.30Y	
C01140.00	09-15-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C02185.00	05-16-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C02185.00	09-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C03196.00	05-15-67	5000	120U	0.00	1.30Y	0.70Y	--	3.30Y	3.30Y	3.30Y	3.30Y	55U	130Y	0.70Y	
C03196.00	09-03-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C05150.00	05-10-67	5000	267U	--	1.30Y	0.70Y	--	3.30Y	3.30Y	3.30Y	3.30Y	80U	130Y	0.70Y	
C05150.00	05-10-67	5050	--	20.00	--	--	--	--	--	--	--	--	--	--	
C05150.00	09-26-67	5050	--	10.00	--	--	--	--	--	--	--	--	--	--	
C11140.00	05-08-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C11140.00	09-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C11320.00	05-08-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C11320.00	09-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C11460.00	05-08-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C11460.00	09-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C21250.00	05-16-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C21250.00	09-11-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C31150.00	05-15-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C31150.00	09-03-67	5050	--	0.00	--	--	--	--	--	--	--	--	--	--	
C51350.00	05-11-67	5050	--	0.02M	--	--	--	--	--	--	--	--	--	--	

TABLE D-3 (Continued)

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MR	BE MC	BI NI	BR PB	CD TI	CO V	CR ZM	CU SR	FE	GA	GE
C41350.00	07-25-67	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
C51350.00	06-00-67	5050	-- --	0.02M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
C41500.00	05-11-67	5050	-- --	0.02M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
C51500.00	07-25-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
C51500.00	06-30-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 presents analyses which do not appear on Tables D-2 and D-3. The definitions of symbols and of abbreviations used in this table are as follows:

TRB Turbidity

POT Total and organic phosphates (As P)

NH₃+N Ammonia plus Organic Nitrogen (As N)

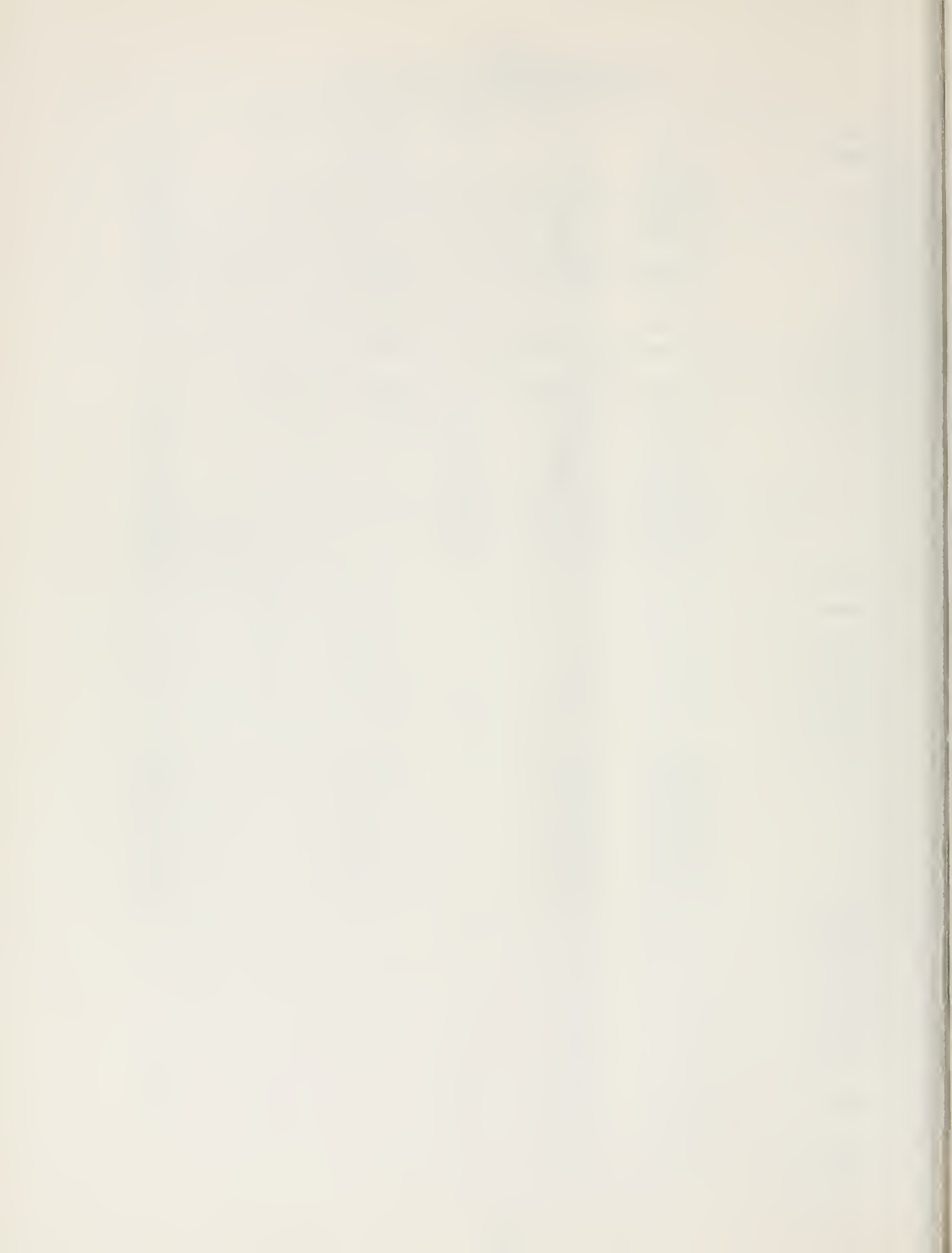
NO₃ Nitrate

Analyses were performed by Department of Water Resources Laboratory (5050) or U. S. Geological Survey Laboratory (5000).

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO.	DATE	LAB	TRB	NH ₃ +N	NO ₃	POT
B00770.00	10-09-68	5050		0.2		0.68
	11-06-68	5050		0.3		0.54
	12-11-68	5050		0.4		0.53
	2-05-69	5050		0.6		0.47
	3-05-69	5050		0.4		0.48
	4-09-69	5050		0.5		0.26
	5-07-69	5050		0.57		0.47
	6-04-69	5050		0.4		0.38
	7-02-69	5050		0.2		0.21
	8-06-69	5050		1.2		0.62
9-10-69	5050		0.4		0.19	
B03115.00	10-02-68	5050		0.3	8.4	0.61
B04105.00	10-02-68	5050		0.7	5.9	2.2
B05125.00	10-02-68	5050		0.5	6.1	0.48
B07020.00	10-02-68	5050		0.7	8.4	1.0
	12-11-68	5000	25			0.05
	1-17-69	5000	30			0.78
	2-13-69	5000	91			0.35
	3-19-69	5000	70			0.33
	4-02-69	5000	49			
	5-07-69	5000	30			0.35
	6-04-69	5000	45			0.19
	7-09-69	5000	40			0.48
	8-07-69	5000	30			1.1
	9-17-69	5000	32		4.8	0.82
B07040.00	10-02-68	5050		0.7	7.3	1.3
B07080.00	10-02-68	5050		1.3	11.0	2.1
B07200.00	10-02-68	5050		0.8	7.6	1.3
B07250.00	10-02-68	5050		0.7	6.5	1.8
B07375.00	10-02-68	5050		0.9	2.6	1.3
B51375.50	9-22-69	5000			1.4	
B95925.00	10-09-68	5050		0.4		0.83
	11-06-68	5050		0.3		0.44
	12-11-68	5050		0.4		0.56
	2-05-69	5050		1.1		1.2
	3-05-69	5050		0.6		1.6
	4-09-69	5050		0.4		0.38
	5-07-69	5050		0.75		1.2
	6-04-69	5050		0.7		0.74
	7-02-69	5050		0.4		0.4
	8-06-69	5050		0.6		0.25
9-10-69	5050		0.5		0.23	
C02185.00	11-04-68	5050	15			
C03196.00	11-04-68	5050	5			
C11140.00	11-12-68	5050	3			
C11320.00	11-12-68	5050	3			
C11460.00	11-12-68	5050	2			
C13250.30	10-17-68	5050	2			0.0
	8-24-69	5050	2			0.02
C13260.30	10-17-68	5050	2			0.01
	8-24-69	5050	2			0.02
C21250.00	11-04-68	5050	5			
C31150.00	11-04-68	5050	2			



APPENDIX E
GROUND WATER QUALITY



INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1969 water year (October 1, 1968 through September 30, 1969). These data were obtained from analyses of water samples from approximately 400 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 151.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various laboratories and agencies cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation.

5000 U. S. Geological Survey Laboratory
 5050 State Department of Water Resources
 5055 California Regional Water Quality Control Boards
 5060 State Department of Public Health
 5070 State Division of Forestry
 5121 Kern County Water Agency
 5203 City of Modesto
 5207 City of Firebaugh
 5521 Modesto Irrigation District
 5702 Individual Property Owner
 5703 Valley Waste Disposal Company
 5802 Twining Laboratory
 5803 Hornkohl Laboratory
 5806 B. C. Laboratory

Explanation of county code is listed on page 12

Chemical Symbols

K	Potassium	B	Boron
MG	Magnesium	CA	Calcium
NA	Sodium	CL	Chloride
NO3	Nitrate	CO3	Carbonate
SiO2	Silica	F	Fluoride
SO4	Sulfate	HCO3	Bicarbonate

Abbreviations

EC	Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Temperature
LAB	Laboratory	TH	Total Hardness
NCH	Non Carbonate Hardness	SAR	Sodium Absorption Ratio

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

STATE	WELL	NO.	COUNTY	LAW	TEMP	EC	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER					TDS 160C (*105C SUM)	TM NCH	
							MIN	MG	NA	CL	S04	CL	NO3	F	B	S102	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUES	CO3			HCO3
02S	04F-06L01M	34	5050	--	2610	36	52	476	--	0	392	--	539	--	--	--	--	--	--	304	
06/11/69	--		5050	7.8		1.80	4.28	20.71		0.00	6.42		15.20						0		
32S	04F-09F01M	19	5050	--	1710	38	22	332	--	0	432	--	213	--	--	--	--	--	185		
06/11/69	--		5050	8.1		1.90	1.81	14.44		0.00	7.08		6.01						0		
02S	04F-04L01M	39	5050	--	3360	62	62	649	--	16	371	--	600	--	--	--	--	--	409		
06/11/69	--		5050	8.5		3.09	5.10	28.23		0.53	6.08		16.92						78		
02S	04E-09A01M	19	5050	--	3680	97	100	596	--	0	224	--	730	--	--	--	--	--	652		
06/11/69	--		5050	8.1		4.84	8.22	25.92		0.00	3.67		20.59						468		
02S	04E-13H01M	39	5050	--	1610	35	34	274	--	0	274	--	284	--	--	--	--	--	228		
06/11/69	--		5050	6.0		1.75	2.80	11.92		0.00	4.49		6.01						3		
02S	04F-16H01M	39	5050	--	2280	97	60	318	--	0	240	--	443	--	--	--	--	--	490		
06/11/69	--		5050	7.8		4.84	4.93	13.83		0.00	3.93		12.49						293		
02S	04E-16L01M	39	5050	--	2880	72	76	476	--	0	309	--	464	--	--	--	--	--	491		
06/11/69	--		5050	8.1		3.59	6.25	20.71		0.00	5.06		13.08						238		
02S	04E-25J01M	39	5050	--	1940	97	45	276	--	0	185	--	296	--	--	--	--	--	426		
06/11/69	--		5050	8.0		4.84	3.70	12.01		0.00	3.03		8.35						274		
02S	04E-27J02M	39	5050	--	2480	64	65	418	--	0	210	--	354	--	--	--	--	--	433		
06/11/69	--		5050	8.2		3.29	5.34	16.18		0.00	3.44		9.98						261		
03S	05E-05R01M	39	5050	--	982	72	21	108	--	0	201	--	110	--	--	--	--	--	267		
06/11/69	--		5050	6.0		3.59	1.73	4.70		0.00	3.29		3.10						102		
03S	05E-06A01M	39	5050	--	1340	100	28	134	--	0	166	--	260	--	--	--	--	--	364		
06/11/69	--		5050	8.0		4.99	2.30	5.83		0.00	2.72		7.33						228		
03S	05E-15K01M	39	5050	--	1840	174	43	162	--	0	110	--	277	--	--	--	--	--	611		
06/10/69	--		5050	7.7		8.68	3.54	7.05		0.00	4.80		7.81						521		
03S	05E-17R01M	39	5050	--	1040	91	20	100	--	0	153	--	116	--	--	--	--	--	308		
06/10/69	--		5050	8.0		4.54	1.64	4.35		0.00	2.51		3.27						182		
03S	05E-25H01M	39	5050	--	849	61	20	93	--	0	197	--	124	--	--	--	--	--	234		
06/10/69	--		5050	8.0		3.04	1.64	4.04		0.00	3.23		3.50						72		
03S	05E-26K01M	39	5050	--	3040	322	96	339	--	0	113	--	116	--	--	--	--	--	1200		
06/10/69	--		5050	7.9		16.07	7.89	14.75		0.00	1.85		3.27						1107		
03S	06E-17H01M	39	5050	--	1540	110	30	186	--	0	303	--	235	--	--	--	--	--	399		
06/10/69	--		5050	7.7		5.49	2.47	8.09		0.00	4.97		6.63						150		
03S	06E-18R01M	39	5050	--	1560	120	32	189	--	0	231	--	171	--	--	--	--	--	433		
06/10/69	--		5050	7.8		5.99	2.63	8.22		0.00	3.79		4.82						243		
03S	06E-28N01M	39	5050	--	997	92	24	90	--	0	166	--	110	--	--	--	--	--	327		
06/10/69	--		5050	8.0		4.59	1.97	3.91		0.00	2.72		3.10						191		
04S	06E-06A01M	50	5050	--	676	35	16	84	--	0	107	--	55	--	--	--	--	--	155		
06/10/69	--		5050	7.8		1.75	1.31	3.65		0.00	1.75		1.55						67		
04S	06E-08R01M	50	5050	--	603	69	22	51	--	0	81	--	138	--	--	--	--	--	261		
06/10/69	--		5050	7.6		3.44	1.81	2.22		0.00	1.33		3.89						195		
04S	06F-26P01M	50	5050	--	744	35	18	99	--	0	163	--	81	--	--	--	--	--	160		
06/10/69	--		5050	8.2		1.75	1.48	4.31		0.00	2.67		2.28						26		
04S	06E-26J01M	50	5050	--	769	36	21	99	--	0	196	--	75	--	--	--	--	--	176		
06/10/69	--		5050	7.9		1.80	1.73	4.31		0.00	3.21		2.11						15		
05S	07E-08J01M	50	5050	--	976	38	71	77	--	8	296	--	68	--	--	--	--	--	386		
06/10/69	--		5050	8.4		1.90	5.84	3.35		0.27	4.85		1.92						130		
05S	07E-13A01M	50	5050	--	2390	105	175	170	--	0	496	--	351	--	--	--	--	--	983		
06/10/69	--		5050	8.2		5.24	14.39	7.39		0.00	8.13		9.90						576		
05S	07E-35G01M	50	5050	--	947	85	40	48	--	0	258	--	120	--	--	--	--	--	378		
06/10/69	--		5050	7.9		4.24	3.29	2.09		0.00	4.23		3.38						166		
05S	08E-32P01M	50	5050	--	1930	126	60	245	--	0	352	--	192	--	--	--	--	--	584		
06/11/69	--		5050	8.2		6.29	4.93	10.66		0.00	5.77		5.41						275		
06S	08E-07A01M	50	5050	--	1940	3	3	448	--	1	208	--	87	--	--	--	--	--	19		
06/11/69	--		5050	8.4		0.15	0.25	19.49		0.03	3.41		2.45						0		

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	COUNTY	LAT.	TEMP.	DEPTH	DATE	FR.	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER	TDS	TH									
								Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL				NO ₃	F	B	SI0 ₂	INOC (#100)	NCH			
205/27E-03014	15	5050	61	231	14	07/01/69	1300	5050	7.8	33	0.70	1.43	0	0.00	0.87	1.42	19	7.6	0.53	0.12	--	--	--	--	40	0	
215/27E-177014	54	5050	--	628	74	10/28/68	1445	5050	8.2	44	3.69	1.91	0	0.00	2.66	4.38	28	38.0	0.79	0.61	--	0.20	--	--	224	6	
215/27E-21A014	54	5050	--	859	93	10/28/68	1530	5050	7.8	49	4.64	2.13	0	0.00	3.66	6.00	41	40.0	1.16	0.64	--	0.10	--	--	325	25	
215/27E-21F024	54	5050	--	572	60	10/28/68	1430	5050	8.3	30	3.49	1.30	0	0.00	3.02	4.95	12	25.0	0.34	0.40	--	0.10	--	--	246	0	
215/27E-21*024	54	5050	--	502	33	10/28/68	1420	5050	8.3	26	1.65	1.13	0	0.00	2.19	3.59	21	29.0	0.59	0.47	--	0.10	--	--	203	23	
215/27E-21N014	54	5050	--	277	36	10/28/68	1400	5050	8.0	13	1.80	0.56	0	0.00	1.44	2.36	8	3.2	0.22	0.05	--	0.00	--	--	112	0	
215/27E-21P014	54	5050	--	346	44	10/28/68	1415	5050	8.1	20	2.19	0.87	0	0.00	1.60	2.62	11	--	0.31	--	--	0.10	--	--	134	3	
215/27E-21*024	54	5050	--	358	42	10/28/68	1025	5050	8.1	23	2.09	1	0	0.00	1.63	2.67	12	--	0.34	--	--	0.10	--	--	131	0	
215/27E-22*014	54	5050	--	631	80	10/28/68	1525	5050	8.0	36	3.99	1.57	0	0.00	2.77	4.54	35	--	0.99	--	--	0.30	--	--	256	29	
215/27E-22*024	54	5050	--	418	49	10/28/68	1505	5050	8.2	44	2.44	1.35	0	0.00	1.89	3.10	16	--	0.45	--	--	0.10	--	--	147	0	
215/27E-27C014	54	5050	--	278	33	10/28/68	1000	5050	8.1	21	1.65	0.91	0	0.00	1.38	2.26	10	--	0.28	--	--	0.00	--	--	105	0	
215/27E-27C024	54	5050	--	544	44	10/28/68	1010	5050	8.1	58	2.19	2.52	0	0.00	2.18	3.57	33	18.0	0.93	0.29	--	0.40	--	--	151	0	
215/27E-27D014	54	5050	--	548	35	10/28/68	1035	5050	7.8	65	1.75	2.83	0	0.00	2.09	3.42	37	--	1.04	--	--	0.70	--	--	136	0	
215/27E-27F014	54	5050	--	612	29	10/28/68	900	5050	7.9	80	1.45	3.48	0	0.00	2.24	3.67	47	--	0.37	--	--	0.60	--	--	134	0	
215/27E-27G014	54	5050	--	386	50	10/28/68	1205	5050	8.2	20	2.49	0.87	0	0.00	1.69	2.77	17	--	0.48	--	--	0.00	--	--	152	13	
215/27E-27G034	54	5050	--	298	33	10/28/68	930	5050	7.8	23	1.65	1	0	0.00	1.44	2.36	12	--	0.34	--	--	0.10	--	--	115	0	
215/27E-27K014	54	5050	--	377	40	10/28/68	1220	5050	8.2	14	1.99	0.51	0	0.00	1.59	2.61	16	--	0.45	--	--	0.00	--	--	153	23	
215/27E-27L024	54	5050	--	414	39	10/28/68	1230	5050	8.2	20	1.95	0.87	0	0.00	1.73	2.83	19	--	0.53	--	--	0.00	--	--	160	18	
215/27E-27M024	54	5050	--	408	41	10/28/68	1245	5050	8.4	26	2.04	1.13	0	0.03	1.89	3.10	14	--	0.39	--	--	0.20	--	--	148	0	
215/27E-28A014	54	5050	--	448	47	10/28/68	1045	5050	8.1	26	2.34	1.13	0	0.00	1.58	2.59	14	--	0.39	--	--	0.20	--	--	156	26	
215/27E-28A024	54	5050	--	364	38	10/28/68	1100	5050	7.9	26	1.90	1.13	0	0.00	1.55	2.54	16	--	0.45	--	--	0.10	--	--	119	0	
215/27E-28E024	54	5050	--	562	63	10/28/68	1350	5050	8.5	47	3.14	2.04	0	0.13	2.40	3.93	21	--	0.59	--	--	0.10	--	--	199	0	
215/27E-28H024	54	5050	--	256	32	10/28/68	1105	5050	8.3	15	1.60	0.65	0	0.00	1.31	2.15	10	--	0.28	--	--	0.00	--	--	98	0	
215/27E-28J024	54	5050	--	477	65	10/28/68	1300	5050	8.3	30	3.24	1.30	0	0.00	2.28	3.74	18	--	0.45	--	--	0.10	--	--	185	0	
245/19E-02R014	54	5050	75	6900	126	04/29/69	1700	5050	7.5	128	6.29	10.53	1160	0.20	8	0	278	436	1900	2.6	0.04	4.70	--	4070	841	3902	613
245/19E-02R014	54	5050	76	21700	12.72	04/29/69	1700	5050	7.2	25.25	5	10	84	0	0	0	4.56	9.08	53.58	0.06	0.00	--	7.80	--	13400	1900	
245/19E-02R014	54	5050	7.2	1700	5	04/29/69	1700	5050	7.2	84	0	0	0	0	0	7	3	13	80	0.00	0.00	--	13671	1423	0	0	
245/24E-04P024	54	5050	--	1640	4	10/28/68	1330	5050	8.6	390	0.20	16.96	--	0.67	20	633	171	0.1	4.82	0.00	--	1.80	--	--	12	0	
245/24E-09N024	54	5050	--	303	15	10/28/68	1315	5050	7.1	61	0.75	2.65	--	0.00	141	2.31	12	2.3	0.34	0.04	--	0.20	--	--	38	0	
03/04/69	--	5050	--	48	--	9	--	5050	7.5	--	--	0.39	--	0.00	20	0.33	--	3	--	--	--	--	--	--	1	0	
03/04/69	--	5050	--	261	4	0.20	--	5050	8.5	56	2.44	--	--	0.13	42	1.34	--	11	1.1	0.02	--	0.20	--	--	12	0	
245/25E-35N014	54	5050	72	596	48	08/26/69	845	5050	7.9	77	2.34	0.96	3.35	0.08	3	0	241	45	13	31.0	--	0.10	--	--	387	164	
245/25E-35N014	54	5050	7.9	845	36	08/26/69	845	5050	7.9	50	1	0	50	1	0	73	14	6	0.50	0.08	--	--	--	--	372	0	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

WELL DATE	WELL TIME	CITY	LAT N	TEMP °F	FC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUES				MILLIGRAMS PER LITER					TDS 180C SUM	TH NCH
						CA	MG	NA	K	CO3	HCO3	S04	CL	NO3	F	B	SI02			
727E-14A01 2/24/69	--	15	5050	94	1460	14	--	304	--	0	244	--	324	0.1	--	0.40	--	--	47	0
727E-13A01 2/21/69	15545	15	5050	--	536	--	--	--	--	--	--	--	--	0.7	0.01	--	--	--	--	--
727E-23C01 1/31/69	--	15	5050	79	544	26	--	84	--	0	94	--	43	9.0	--	0.20	--	--	87	10
727E-23G01 1/31/69	--	15	5050	--	--	--	--	--	--	--	--	--	33	--	0.1	0.04	--	379	--	--
727E-23G01 1/26/69	--	15	5050	85	502	45	--	60	--	0	174	--	22	0.6	--	0.10	--	--	127	0
727E-23G01 1/26/69	--	15	5050	85	744	68	--	68	--	0	136	--	56	6.3	--	0.10	--	--	225	113
721E-17D01 1/14/69	1245	15	5050	76	16600	1080	53.89	618	2240	19	0	147	2720	4930	142.0	--	8.70	--	12100	5190
726E-09N01 3/26/69	1340	15	5050	84	2440	308	--	256	--	0	108	--	126	163.0	--	--	--	--	895	806
726E-09O01 3/26/69	1320	15	5050	62	1060	39	--	190	--	0	20	--	102	96.0	--	--	--	--	101	85
726E-20J01 8/26/69	1400	15	5050	--	1190	152	--	86	--	0	64	--	161	130.0	--	--	--	--	402	349
721E-11C01 3/13/69	1045	15	5050	76	5070	256	43	824	6	0	117	1380	767	2.3	--	5.50	--	3400	816	720
722E-31N01 4/30/69	1400	15	5050	79	5601	148	6	1130	6	0	59	1530	870	0.0	--	8.70	--	3690	395	3728
722E-31N02 4/30/69	1115	15	5050	76	3310	115	77	516	5	0	134	1060	394	0.0	--	5.90	--	2230	604	2239
726E-07A02 8/26/69	--	15	5050	--	399	37	--	31	--	0	104	--	58	--	--	--	--	--	121	36
726E-07A03 8/26/69	--	15	5050	--	438	51	--	20	--	0	123	--	49	--	--	--	--	--	168	67
726E-09G01 8/29/69	--	15	5050	--	230	8	--	39	--	0	97	--	12	--	--	--	--	--	28	0
726E-11G01 8/29/69	--	15	5050	--	269	27	--	29	--	0	114	--	10	--	--	--	--	--	71	0
726E-21A01 8/26/69	--	15	5050	--	316	25	--	32	--	0	95	--	33	--	--	--	--	--	78	2
726E-22H01 8/14/69	--	15	5703	--	870	100	10	74	3	0	118	19	239	--	0.1	0.15	10	517	291	514
726E-22O01 8/12/69	--	15	5703	--	323	13	3	45	1	4	54	13	49	--	0.1	0.10	10	173	45	170
726E-25J01 8/14/69	--	15	5703	--	476	2	2	106	0	10	42	75	79	--	0.3	0.20	10	308	13	306
726E-26M01 8/26/69	--	15	5050	--	844	48	--	108	--	0	113	--	174	--	--	--	--	--	154	61
726E-27A01 8/12/69	--	15	5703	--	800	66	10	94	2	0	120	15	212	--	0.3	0.13	10	473	206	469
726E-27A01 8/12/69	--	15	5703	--	2439	280	51	71	5	0	194	133	546	--	0.1	0.13	10	1197	909	1192
726E-29A01 8/26/69	--	15	5050	--	659	79	16	29	3	0	106	91	61	72.0	--	0.00	--	449	262	404
726E-29C02 8/26/69	--	15	5050	--	605	32	--	19	--	0	103	--	15	--	--	--	--	--	107	22
726E-30J01 8/26/69	--	15	5050	--	851	107	--	34	--	0	102	--	76	--	--	--	--	--	354	270
726E-32A01 8/26/69	--	15	5050	--	315	34	--	25	--	0	91	--	17	--	--	--	--	--	95	20
726E-32E01 8/26/69	--	15	5050	--	861	108	--	39	--	0	102	--	74	--	--	--	--	--	354	270

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	% TIME	COUNTY	LAW SAMPLER	TEMP. PH.	FC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										TDS (105C) (105C) 504		
						MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUES				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F		SI02	
275/26E-32G01M 08/26/69 -- SAR = 0.96		15	5050	--	10P0	138 6.59 61	27 2.22 20	47 2.04 18	4 0.10 0	0 0.00 1.62	99 4.12 15	198 3.04 37	104 2.21 26	137.0 --	0.00 --	777 708	41 37	
275/26E-33A01M 08/26/69 --		15	5050	--	2110	294 14.67	-- 3.39	78 3.39	-- 0.00	0 1.75	107 1.75	-- 8.01	284 --	--	0.00 --	--	101 92	
275/26E-33C01M 08/26/69 --		15	5050	--	392	40 1.99	-- 1.26	29 1.26	-- 0.00	0 1.47	90 1.47	-- 0.85	30 --	--	--	--	12 4	
275/27E-28F01M 08/26/69 -- SAR = 1.00		15	5050	--	68M	126 6.29 73	5 0.41 5	42 1.83 21	4 0.10 0	0 0.00 32	168 2.75 11	48 1.00 11	174 4.91 56	1.8 0.03 0	--	0.00 --	586 484	33 19
275/27E-33E01M 08/26/69 --		15	5050	--	5A2	53 2.64	-- 2.57	59 2.57	-- 0.00	0 1.47	90 1.47	-- 1.78	63 --	--	--	--	14 7	
285/22E-09A01M 09/30/69 -- SAR = 6.47		15	5050	82	825	25 1.25 17	4 0.33 0.33	132 5.74 78	2 0.05 1	0 0.00 0.69	42 0.58 9	28 0.58 8	210 5.92 82	0.9 0.01 0	0.20 --	--	496 423	7 4
285/22E-33N01M 03/13/69 1515 SAR = 6.37		15	5050	73	3160	198 9.88 29	59 4.85 14	435 18.92 56	4 0.10 0	0 0.00 1.52	93 20.82 61	1000 11.59 34	411 0.7 0	0.7 0.01 0	6.30 --	--	2240 2160	73 66
285/25E-17L01M 09/30/69 1235 SAR = 2.64		15	5050	75	373	25 1.25 37	0 0.00 0	48 2.09 62	1 0.02 1	0 0.00 35	73 1.20 35	37 0.77 23	38 1.07 31	23.0 0.37 0.11	0.00 --	--	226 208	6
285/26E-03J01M 08/26/69 --		15	5050	--	1160	133 6.64	-- 4.00	92 4.00	-- 0.00	0 0.77	47 0.77	-- 5.36	190 --	--	--	--	35 31	
285/26E-04C01M 08/26/69 -- SAR = 1.04		15	5050	--	900	124 6.19 68	10 0.82 9	45 1.95 22	4 0.10 1	0 0.00 15	85 1.39 39	171 3.56 36	115 0.90 10	56.0 0.90 10	0.00 --	--	616 567	34 27
285/26E-10N01M 08/26/69 --		15	5050	--	2020	173 8.63	-- 11.31	260 11.31	-- 0.00	0 1.95	119 1.95	-- 8.52	302 --	--	0.10 --	--	46 37	
285/26E-11A01M 08/26/69 --		15	5050	--	629	37 1.85	-- 3.57	82 3.57	-- 0.00	0 0.35	35 0.35	-- 2.93	104 --	--	--	--	91 6	
285/26E-11J01M 08/26/69 --		15	5050	--	2300	271 13.52	-- 9.66	222 9.66	-- 0.00	0 0.77	47 0.77	-- 10.07	357 --	--	--	--	70 66	
285/26E-13J01M 08/26/69 --		15	5050	--	433	12 0.60	-- 3.22	74 3.22	-- 0.00	0 0.74	45 0.74	-- 1.78	63 --	--	--	--	36 1	
285/26E-15F01M 08/26/69 --		15	5050	--	3080	271 13.52	-- 17.40	400 17.40	-- 0.00	0 0.83	51 0.83	-- 13.34	473 --	--	--	--	76 72	
285/26E-16A01M 08/26/69 --		15	5050	--	2730	232 11.58	-- 17.14	394 17.14	-- 0.00	0 0.34	21 0.34	-- 12.32	437 --	--	--	--	60 58	
285/26E-22A01M 08/26/69 --		15	5050	--	4480	424 21.16	-- 26.97	620 26.97	-- 0.00	0 2.69	164 2.69	-- 17.77	630 --	--	0.90 --	--	118 104	
285/26E-23J01M 08/26/69 -- SAR = 5.16		15	5050	--	1860	166 8.38 44	1 0.08 0	244 10.61 55	4 0.10 0	0 0.00 0.57	35 11.49 3	552 6.96 59	21.0 0.34 2	0.10 --	--	1270 1255	423 394	
285/26E-30A01M 09/30/69 1150		15	5050	75	1230	178 8.88	-- 3.78	87 3.78	-- 0.00	0 1.41	86 1.41	-- 3.50	124 --	16.0 0.26	0.20 --	--	480 409	
285/26E-32P01M 09/30/69 1130 SAR = 2.91		15	5050	74	2350	337 16.82 62	19 1.56 6	203 8.83 32	3 0.08 0	0 0.00 2.44	149 2.44 9	876 18.24 67	58.0 0.93 20	0.80 --	--	1900 1768	922 800	
285/27E-07C01M 08/26/69 --		15	5050	--	292	0 0.00	-- 2.57	59 2.57	-- 0	0 1.31	80 1.31	-- 1.16	41 --	--	--	--	6 0	
285/27E-19C01M 08/26/69 --		15	5050	--	587	28 1.40	-- 3.57	82 3.57	-- 0.00	0 0.39	24 0.39	-- 4.17	148 --	--	--	--	71 51	
285/27E-19L01M 08/26/69 --		15	5050	--	506	10 0.50	-- 3.91	90 3.91	-- 0.00	0 0.90	55 0.90	-- 2.73	97 --	--	0.10 --	--	32 0	
285/27E-30A02M 08/26/69 --		15	5050	--	940	42 2.09	-- 6.39	147 6.39	-- 0.00	0 1.02	62 1.02	-- 4.14	147 --	--	--	--	111 60	
295/23E-13L01M 09/30/69 1335		15	5050	75	275	7 0.35	-- 2.13	49 2.13	-- 0.17	5 0.30	30 0.49	-- 0.90	32 0.00	0.2 0.00	0.10 --	--	17 0	
295/23E-16N02M 09/30/69 1355		15	5050	87	338	4 0.20	-- 2.78	64 2.78	-- 0.17	5 0.41	25 0.41	-- 2.17	77 0.01	0.1 0.00	0.10 --	--	12 0	
295/23E-18N01M 03/13/69 1145 SAR = 12.53		15	5050	72	5380	310 15.47 30	10 0.82 2	822 35.76 69	4 0.10 0	0 0.00 0.62	38 5.66 11	560 1400 0.0	0.0 0.0 0.00	7.70 --	--	3300 3133	815 785	
295/23E-35K01M 05/01/69 1215 SAR = 9.07		15	5050	76	2790	145 7.23 28	6 0.49 2	410 17.83 70	2 0.05 0	0 0.00 1.18	11 1.06 4	51 24.31 95	0.0 0.0 0.00	0.40 --	--	1730 1482	387 378	
295/23E-35K02M 05/01/69 1030 SAR = 6.39		15	5050	72	1480	84 4.19 28	7 0.57 4	227 9.87 67	2 0.05 0	0 0.00 2.45	174 2.45 19	340 7.08 46	175 0.00 4.93	0.0 0.00 0	0.60 --	--	926 922	237 94

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE	WELL NO.	COMPT. ID	DATE	TEMP	PC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER			MILLIGRAMS PER LITER					TDS 180C (*105C) SUM	TH NCH
						Ca	Mg	Na	K	CO3	PERCENT REACTANCE	PEF LITER HCO3	PEF LITER 504	CL	NO3	F	R		
5/24F-24F1M	15	5050	40	50.1	31	0	74	0	0	62	110	32	28.0	--	0.10	--	323	78	
9/26/64 1155		5050	7.4		1.55	0.00	3.22	0.00	0.00	1.02	2.29	0.90	0.45				306	27	
AP = 3.0h					32	0	67	0	0	22	49	19	10						
5/25F-05501M	15	5050	--	540	49	1	61	1	0	122	72	53	12.0	--	0.40	--	310	127	
9/30/64 1100		5050	7.4		2.44	0.08	2.65	0.02	0.00	2.00	1.50	1.49	0.19				310	27	
AP = 2.3h					47	2	51	0	0	38	29	29	4						
5/25F-29F1M	15	5050	74	214	14	--	29	--	0	77	--	11	3.4	--	0.20	--	--	42	
9/26/64 1210		5050	4.2		6.80	--	1.24	--	0.00	1.26	--	0.31	0.05				--	0	
5/26E-09001M	15	5050	73	634	64	--	59	--	0	85	--	61	14.0	--	0.20	--	--	184	
9/30/64 1110		5050	8.0		3.19	--	2.57	--	0.00	1.39	--	1.72	0.22				--	114	
5/27E-08A01M	15	5050	--	1790	--	--	--	--	--	--	--	140	--	--	--	--	--	--	
0/29/68 --		5050	--		--	--	--	--	--	--	--	3.95	--	--	--	--	--	--	
5/27E-08F02M	15	5050	--	1710	--	--	270	--	0	416	--	100	87.0	--	--	--	--	352	
0/29/68 --		5050	7.6		--	--	11.74	--	0.00	6.82	--	2.62	1.40				--	11	
5/27E-09K02M	15	5050	--	1170	--	--	--	--	--	--	--	35	--	--	--	--	--	--	
0/28/68 --		5050	--		--	--	--	--	--	--	--	0.99	--	--	--	--	--	--	
5/27E-10C01M	15	5050	--	663	--	--	--	--	--	--	--	70	--	--	--	--	--	--	
0/29/68 --		5050	--		--	--	--	--	--	--	--	1.97	--	--	--	--	--	--	
5/27E-10P02M	15	5050	--	1020	--	--	--	--	--	--	--	106	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	2.99	--	--	--	--	--	--	
5/27E-10P01M	15	5050	--	646	--	--	42	--	0	176	--	56	11.0	--	--	--	--	229	
10/29/68 --		5050	7.6		--	--	1.83	--	0.00	2.88	--	1.58	0.18				--	85	
5/27E-10P05H	15	5050	--	932	--	--	--	--	--	--	--	36	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	1.01	--	--	--	--	--	--	
5/27E-14G01M	15	5050	--	478	--	--	50	--	0	178	--	16	2.1	--	--	--	--	128	
10/29/68 --		5050	7.6		--	--	2.17	--	0.00	2.92	--	0.45	0.03				--	0	
5/27E-15001M	15	5050	--	1310	--	--	--	--	--	--	--	124	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	3.50	--	--	--	--	--	--	
5/27E-15H01M	15	5050	--	1020	--	--	--	--	--	--	--	64	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	1.80	--	--	--	--	--	--	
5/27E-15N01M	15	5050	--	1800	--	--	200	--	0	314	--	172	57.0	--	--	--	--	510	
10/30/68 --		5050	7.7		--	--	8.70	--	0.00	5.15	--	4.85	0.92				--	252	
5/27E-16A01M	15	5050	--	1090	--	--	--	--	--	--	--	47	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	1.32	--	--	--	--	--	--	
5/27E-16H01M	15	5050	--	572	--	--	--	--	--	--	--	34	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	0.96	--	--	--	--	--	--	
5/27E-17N01M	15	5050	--	1680	--	--	--	--	--	--	--	78	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	2.20	--	--	--	--	--	--	
5/27E-21J03M	15	5050	--	210	--	--	21	--	0	100	--	7	1.0	--	--	--	--	60	
10/28/68 --		5050	7.5		--	--	0.91	--	0.00	1.64	--	0.20	0.02				--	0	
5/27E-21J05H	15	5050	--	462	--	--	--	--	--	--	--	45	--	--	--	--	--	--	
10/29/68 --		5050	--		--	--	--	--	--	--	--	1.27	--	--	--	--	--	--	
5/27E-21K01M	15	5050	--	632	--	--	71	--	0	269	--	46	12.0	--	--	--	--	165	
10/29/68 --		5050	7.6		--	--	3.09	--	0.00	4.41	--	1.30	0.19				--	0	
5/27E-21P01M	15	5050	--	348	--	--	--	--	--	--	--	19	--	--	--	--	--	--	
10/28/68 --		5050	--		--	--	--	--	--	--	--	0.53	--	--	--	--	--	--	
5/27E-22M02M	15	5050	--	440	--	--	28	--	0	219	--	22	1.3	--	--	--	--	167	
10/28/68 --		5050	8.2		--	--	1.22	--	0.00	3.59	--	0.62	0.02				--	0	
5/27E-23A02M	15	5050	--	124	--	--	--	--	--	--	--	5	--	--	--	--	--	--	
10/28/68 --		5050	--		--	--	--	--	--	--	--	0.14	--	--	--	--	--	--	
5/27E-23K02M	15	5050	--	379	--	--	--	--	--	--	--	20	--	--	--	--	--	--	
10/28/68 --		5050	--		--	--	--	--	--	--	--	0.56	--	--	--	--	--	--	
5/27E-23M02M	15	5050	--	760	--	--	--	--	--	--	--	65	--	--	--	--	--	--	
10/28/68 --		5050	--		--	--	--	--	--	--	--	1.83	--	--	--	--	--	--	
5/27E-20A01M	15	5050	73	253	27	--	19	--	0	97	--	20	0.1	--	0.20	--	--	83	
09/24/69 1115		5050	8.1		1.35	--	0.83	--	0.00	1.59	--	0.56	0.00				--	3	
5/27E-15L01M	15	5050	78	784	28	1	134	3	0	171	127	71	1.0	--	0.10	--	481	74	
09/24/69 1000		5050	8.0		1.40	0.08	5.83	0.08	0.00	2.80	2.64	2.00	0.02				450	0	
5AM = 6.7h					19	1	79	1	0	37	35	27	0						
305/27E-01C03M	15	5050	78	547	9	--	102	--	1	30	--	155	0.1	--	0.60	--	--	26	
09/26/64 1055		5050	8.4		0.45	--	4.44	--	0.03	0.49	--	4.37	0.00				--	0	
305/24F-03E01M	15	5050	72	224	7	--	42	--	0	54	--	15	0.1	--	0.20	--	--	19	
09/26/64 1035		5050	8.2		0.35	--	1.83	--	0.00	0.88	--	0.42	0.00				--	0	
305/24F-11J01M	15	5050	73	257	11	--	44	--	0	57	--	21	0.8	--	0.10	--	--	25	
09/26/64 955		5050	7.8		0.55	--	1.91	--	0.00	0.93	--	0.59	0.01				--	0	

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

STATE DATE	WELL NO. TIME	COUNTY	LAW DAPPLM	TEMP F	FC	MINERAL			MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER			TDS 180C (*105) SUM	TH NCH	
						CA	MG	NA	K	CO3	NO3	SO4	CL	NO3	F			H
31S/24F-13104H 10/24/68	15 1020	5050	74 8.3	12000	523 26.10	--	2660	0	142	2260	0.00	2.33	63.73	--	--	--	--	2060 1943
							115.71	0	314	1500	--	--	--	--	--	--	--	2280 1858
31S/24F-24024V 10/24/68	15 940	5050	72 8.2	10900	302 15.07	--	2040 88.74	0 0.00	314 8.42	1500 42.30	20200 569.64	--	--	--	--	--	--	2280 1858
							16900 822.15	0 0.00	1100 16.03	20200 569.64	--	--	--	--	--	--	--	14800 3389E
31S/24F-25E03M 10/23/68	15 1530	5050	75 7.8	66000	574 28.74	--	16900 822.15	0 0.00	1100 16.03	20200 569.64	20200 569.64	--	--	--	--	--	--	14800 3389E
							1370 64.36	0 0.00	556 9.11	12000 338.40	--	--	--	--	--	--	--	7620 7164
31S/24F-26L03M 10/23/68	15 1040	5050	76 8.1	6140	478 23.85	--	831 36.15	0 0.00	112 1.83	723 20.39	723 20.39	--	--	--	--	--	--	1870 1778
							2980 129.63	0 0.00	665 10.90	4700 132.54	--	--	--	--	--	--	--	4210 3665
31S/24E-36007M 10/23/68	15 1440	5050	74 7.7	16700	439 21.91	--	2760 120.06	0 0.00	948 15.54	3580 100.96	3580 100.96	--	--	--	--	--	--	4070 3292
							5710 248.38	0 0.00	1250 20.49	9660 272.41	--	--	--	--	--	--	--	6400 5375
31S/24E-36004M 10/23/68	15 1305	5050	72 7.7	8540	659 32.88	--	1110 48.26	0 0.00	115 1.88	1930 54.42	1930 54.42	--	--	--	--	--	--	2470 2376
							71 3.09	9 0.30	98 1.61	18 0.51	0.1 0.00	0.30 0.00	--	--	0.30	--	--	7 0
31S.26E-02J01M 09/25/69	15 1700	5050	73 8.7	236	5 0.25	--	50 2.17	6 0.20	82 1.34	14 0.39	0.4 0.01	--	--	0.20	--	--	--	13 0
							68 2.49	37 0.00	183 3.00	23 0.65	1.9 0.03	--	--	0.20	--	--	--	148 0
31S/27E-31J01M 09/25/69	15 1620	5050	73 8.2	702	44 2.19 31	6 0.49 7	100 4.35 62	1 0.02 0	160 2.62 37	166 3.46 49	36 1.01 14	0.2 0.00 0	--	0.20	--	--	--	472 433 6
							45 2.24	26 0.00	181 2.97	26 0.73	1.3 0.02	--	--	0.20	--	--	--	140 6
31S/28E-26A01M 09/25/69	15 710	5050	75 8.1	280	9 0.45	--	51 2.22	0 0.00	97 1.59	16 0.45	0.6 0.01	--	--	0.20	--	--	--	25 0
							17 0.85 19	6 0.49 11	73 3.17 70	171 2.80 60	11 0.23 1.49	53 0.13 3	8.0 0.34 0.00	--	4.02	--	--	245 257 0
31S/29E-01A02M 11/21/68	-- --	5121	7.6	560	17 0.85 19	6 0.49 11	10 3.17 70	0 0.00	171 2.80 60	11 0.23 1.49	53 0.13 3	8.0 0.34 0.00	--	4.02	--	--	--	245 257 0
							32 1.60 29	10 0.82 15	69 3.00 55	199 3.26 57	38 1.79 14	50 0.25 25	15.3 0.25 4	--	1.67	--	--	299 314# 123
31S/29E-01C01M 11/29/68	-- --	5121	7.8	630	1.60 29	0.82 15	3.00 55	0 0	199 3.26 57	38 1.79 14	50 0.25 25	15.3 0.25 4	--	1.67	--	--	--	299 314# 123
							58 2.89 42	23 1.89 28	47 2.04 30	264 4.33 59	36 1.56 21	32 0.96 7	0.2 0.52 0	--	0.20	--	--	368 400# 229
31S/29E-01D01M 11/21/68	-- --	5121	7.7	740	63 3.14 46	23 1.89 28	40 1.74 26	0 0.00	273 4.47 62	70 1.46 20	32 0.90 12	24.4 0.39 5	--	0.44	--	--	--	365 388# 253
							65 3.24 46	23 1.89 28	45 1.96 28	259 4.24 56	74 1.54 20	46 1.30 17	33.9 0.55 0	--	0.21	--	--	382 415 45
31S/29E-01M01M 11/21/68	-- --	5121	7.9	570	36 1.90 36	11 0.90 17	56 2.44 46	0 0.00	229 3.75 70	36 0.75 14	6.6 0.11 2	--	--	0.78	--	--	--	282 288 0
							62 3.09 47	17 1.40 21	48 2.09 32	261 4.28 62	34 1.29 19	24.8 0.40 6	--	--	0.21	--	--	298 377 84
31S/29E-02C02M 11/19/68	-- --	5121	8.4	460	21 1.05 25	5 0.41 10	61 2.65 64	5 0.17	173 2.83 4	23 0.48 68	23 0.65 11	2.0 0.03 1	--	0.57	--	--	--	244 226 0
							57 2.84 44	16 1.31 20	52 2.26 35	256 4.19 64	61 1.27 19	33 0.93 3	11.7 0.19 3	--	0.37	--	--	347 357 0
31S/29E-02K01M 11/19/68	-- --	5121	7.8	710	2.84 1.44 20	1.31 2.26 35	52 2.26 35	0 0.00	256 4.19 64	61 1.27 19	33 0.93 3	11.7 0.19 3	--	0.37	--	--	--	347 357 0
							50 2.49	55 2.39	408 6.69	36 1.01	38.0 0.61	--	--	0.20	--	--	--	188 0
06/19/69	15 1305	5050	8.1	677	50 2.49	--	55 2.39	0 0.00	408 6.69	36 1.01	38.0 0.61	--	--	0.20	--	--	--	188 0
							93 4.44 57	22 1.81 22	45 1.74 21	295 4.83 53	78 1.62 18	55 1.55 17	69.8 1.12 12	--	0.20	--	--	435 503 81
31S/29E-03A02M 11/19/68	-- --	5121	7.7	710	61 3.04 48	17 1.40 22	44 1.91 30	0 0.00	279 4.57 70	50 1.04 16	26 0.73 11	9.3 0.15 2	--	0.25	--	--	--	339 345 0
							62 3.09 47	19 1.56 24	44 1.91 29	279 4.57 70	54 1.12 16	31 0.87 13	18.6 0.30 4	--	0.17	--	--	350 366 3

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	COUNTY	LAB NO.	TEMP PH	FC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				TDS 1800 (±105) SUM	TH CM
						CA	Mg	NA	K	PERCENT	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	F	CL	NO3	SIO2		
315/29E-04J01M	15 5806	--	970	80	21	53	--	0	270	116	41	43.4	--	0.35	--	445	285			
11/19/68 --	5121	7.7	3.99	1.73	2.30	0.00	4.42	2.41	1.16	0.70					488	64				
SAR = 1.36			50	21	29	--	0	51	28	13	8									
15/29E-04P01M	15 5050	72	701	68	--	55	--	0	225	--	71	4.3	--	0.20	--	--	238			
6/19/69 1250	5050	8.3	3.39	2.39			0.00	3.69			2.00	0.07				--	53			
315/29E-05A01M	15 5050	--	976	88	--	105	--	0	304	--	55	46.0	--	0.40	--	--	304			
06/19/69 1240	5050	8.3	4.39	4.57			0.00	4.98			1.55	0.74				--	55			
315/29E-07001M	15 5050	--	739	69	16	67	3	0	248	96	33	55.0	--	0.30	--	476	240			
06/19/69 --	5050	8.1	3.44	1.31	2.91	0.08	0.00	4.06	2.00	0.93	0.89					462	37			
SAR = 1.89			44	17	38	1		52	25	12	11									
315/29E-10A01M	15 5806	--	1150	112	24	37	--	0	299	99	79	106.3	--	0.17	--	499	379			
11/19/68 --	5121	7.6	5.59	1.97	1.61	0.00	4.90	2.06	2.23	1.71					605	134				
SAR = 0.93			61	21	17	0		45	19	20	16									
315/29E-10R80M	15 5806	--	1100	97	28	47	--	0	307	100	71	84.6	--	0.60	--	495	355			
11/19/68 --	5121	7.7	4.84	2.30	2.04	0.00	5.03	2.08	2.00	1.36					580	103				
SAR = 1.08			53	25	22			48	20	19	13									
315/29E-10K01M	15 5806	--	1080	100	13	69	--	0	297	98	78	68.6	--	0.40	--	507	306			
11/19/68 --	5121	7.8	4.99	1.07	3.00	0.00	4.87	2.04	2.20	1.11					573	62				
SAR = 1.72			5	12	33			48	20	21	11									
315/29E-11A01M	15 5806	--	1000	85	21	55	--	0	275	103	60	69.1	--	0.61	--	461	299			
11/19/68 --	5121	7.9	4.24	1.73	2.39	0.00	4.51	2.14	1.69	1.11					529	73				
SAR = 1.38			51	21	29			48	23	18	12									
315/29E-11B01M	15 5806	--	590	38	9	62	--	0	233	32	29	4.7	--	1.20	--	286	131			
11/19/68 --	5121	7.8	1.90	0.74	2.70	0.00	3.82	0.67	0.82	0.07					291	0				
SAR = 2.35			35	14	51	0		71	12	15	1									
315/29E-11D01M	15 5806	--	1080	104	22	50	--	0	307	106	67	68.6	--	0.60	--	502	349			
11/19/68 --	5121	7.6	5.19	1.81	2.17	0.00	5.03	2.21	1.89	1.11					570	97				
SAR = 1.16			57	20	24			49	22	18	11									
315/29E-12H01M	15 5806	--	690	60	13	53	--	0	265	61	28	3.3	--	0.29	--	350	204			
11/21/68 --	5121	7.9	2.99	1.07	2.30	0.00	4.36	1.27	0.79	0.05					349	0				
SAR = 1.62			47	17	36			67	20	12	1									
315/29E-12L01M	15 5806	--	610	50	9	58	--	0	213	36	54	0.4	--	1.74	--	313	162			
11/29/68 --	5121	7.8	2.49	0.74	2.52	0.00	3.40	0.75	1.52	0.01					314	0				
SAR = 1.98			43	13	44	0		60	13	26	0									
315/29E-12M01M	15 5806	--	860	64	11	80	--	0	259	76	63	27.5	--	1.05	--	423	205			
11/19/68 --	5121	7.8	3.19	0.90	3.48	0.00	4.24	1.58	1.78	0.44					450	0				
SAR = 2.43			42	12	46			53	20	22	5									
315/29E-15C01M	15 5050	--	549	49	10	56	3	0	237	60	23	0.7	--	0.30	--	337	161			
06/19/69 1320	5050	7.6	2.44	0.82	2.44	0.08	3.88	1.25	0.65	0.01					319	0				
SAR = 1.70			42	14	42	1		67	22	11	0									
315/29E-16C01M	15 5050	71	684	63	--	53	--	0	218	--	36	42.0	--	0.10	--	--	230			
06/18/69 1470	5050	8.2	3.14	--	2.30	0.00	3.57	--	1.01	0.68					--	51				
315/29E-21N01M	15 5050	75	607	51	10	64	3	0	192	62	55	9.6	--	0.80	--	362	166			
06/18/69 1250	5050	8.2	2.54	0.82	2.78	0.08	0.00	3.15	1.29	1.55	0.15				350	8				
SAR = 2.14			41	13	45	1		51	21	25	2									
315/29E-27A01M	15 5050	--	626	52	8	58	3	0	129	40	64	66.0	--	0.30	--	392	161			
06/18/69 1400	5050	8.2	2.59	0.66	2.52	0.08	0.00	2.11	0.83	1.80	1.06				355	55				
SAR = 1.98			44	11	43	1		36	14	31	18									
315/29E-27C01M	15 5050	75	1050	64	--	132	--	0	204	--	104	56.0	--	0.96	--	--	232			
06/18/69 1315	5050	7.9	3.19	--	5.74	0.00	0.00	3.34	--	2.93	0.90				--	65				
315/29E-30A01M	15 5050	73	956	80	10	92	3	0	180	108	139	29.0	--	1.50	--	578	267			
06/18/69 1230	5050	8.2	3.99	1.31	4.00	0.08	0.00	2.95	2.25	3.92	0.47				557	119				
SAR = 2.46			42	14	43	1		31	23	41	5									
315/30E-06C01M	15 5806	--	890	74	28	42	--	0	253	110	50	40.1	--	0.29	--	431	300			
11/21/68 --	5121	7.7	3.69	2.30	1.83	0.00	4.15	2.29	1.41	0.65					469	92				
SAR = 1.05			47	29	23			49	27	17	8									
315/30E-06E01M	15 5806	--	960	75	28	47	--	0	267	90	64	45.3	--	1.35	--	437	302			
11/29/68 --	5121	7.7	3.74	2.30	2.04	0.00	4.38	1.87	1.80	0.73					482	83				
SAR = 1.17			46	28	25			50	21	20	8									
315/30E-06L01M	15 5806	--	850	58	21	57	--	0	199	111	55	28.8	--	1.94	--	402	232			
11/29/68 --	5121	7.7	2.89	1.73	2.48	0.00	0.00	3.26	2.31	1.55	0.46				431	69				
SAR = 1.63			41	24	35			43	30	20	6									
315/30E-06N01M	15 5806	--	970	68	18	55	--	0	153	150	58	66.9	--	4.00	--	425	243			
11/29/68 --	5121	7.7	3.19	1.48	2.39	0.00	2.51	3.12	1.63	1.08					496	117				
SAR = 1.53			47	20	33			30	37	20	13									
315/30E-07001M	15 5806	--	460	7	0	81	--	8	151	2	40	0.8	--	4.00	--	214	18			
11/29/68 --	5121	8.5	0.35	0.00	3.52	0.27	2.47	0.00	1.13	0.01					217	0				
SAR = 8.43			9	0	91			7	63	1	29	0								
315/30E-16A01M	15 5050	80	418	7	--	82	--	10	97	--	57	0.3	--	6.60	--	--	20			
09/26/69 1345	5050	8.6	0.35	--	3.57	0.33	1.59	--	1.81	0.00					--	0				

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE WELL DATE	WELL TYPE	NO.	COUNTY	LAT N	LONG W	TEMP SAMPLE F/M	FC	MINERAL CONSTITUENTS IN		MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUES					MILLIGRAMS PER LITER					TDS 180C (*105C) SUM	TH NCH
								CA	MG	NA K	CL	CO3	SO4	NO3	F	P	SI02	1250	486		
02/25/69 SAR = 3.61	15	5050	HR	1570	8.3	7.9		183	7	183	3	0	99	756	15	1.1	--	0.60	--	1250	486
09/25/69	15	5050	7.9				4.13	0.57	7.96	0.00	0.00	1.62	15.74	0.42	0.02	--	--	--	1196	405	
							51	3	45	0	0	9	84	2	0						
125/27F-16002M 09/25/69 1530	15	5050	7.9	691	8.2			61	--	87	--	0	278	--	17	12.0	--	0.70	--	--	179
							3.04	--	3.78	--	0	4.56	--	0.48	0.19	--	--	--	--	--	0
125/27F-15001M 09/25/69 1505	15	5050	8.2	861	8.3			70	--	92	--	0	222	--	37	4.4	--	0.60	--	--	261
							3.49	--	4.00	--	0.00	3.64	--	1.04	0.07	--	--	--	--	--	79
125/28F-16601M 07/03/69	15	5806	7.6	578	7.6			42	9	41	--	0	154	37	48	--	--	0.20	--	254	142
							2.09	0.74	1.78	--	0.00	2.52	0.77	1.35	--	--	--	--	--	--	16
125/28F-16001M 07/03/69	15	5806	7.8	547	7.8			41	9	35	--	0	160	39	30	--	--	0.31	--	234	138
							2.04	0.74	1.52	--	0.00	2.62	0.81	0.85	--	--	--	--	--	--	7
125/28F-20001M 09/29/69	15	5806	8.2	628	8.2			28	8	50	--	5	155	47	19	4.3	--	0.31	--	232	103
SAR = 2.14							1.40	0.66	2.17	--	0.17	2.54	0.98	0.53	0.07	--	--	--	--	238	0
							33	15	51	--	4	59	23	12	2						
125/28E-2000M 07/01/69	15	5806	7.3	1131	7.9			74	16	118	--	0	170	283	52	0.7	--	0.53	--	627	250
SAR = 3.24							3.69	1.31	5.12	--	0.00	2.79	5.89	1.47	0.01	--	--	--	--	628	111
							36	13	51	--	0	27	58	14	0						
125/28E-2100M 07/03/69	15	5806	7.3	585	7.6			42	9	36	--	0	156	48	28	--	--	0.24	--	241	140
							2.04	0.74	1.57	--	0.00	2.56	1.00	0.79	--	--	--	--	--	--	12
125/28E-21F01M 07/03/69	15	5806	7.2	578	7.7			44	8	36	--	0	155	53	27	--	--	0.20	--	245	142
							2.19	0.66	1.57	--	0.00	2.54	1.10	0.76	--	--	--	--	--	--	15
125/28E-25M03M 12/24/68	15	5806	--	780	7.8			58	19	59	--	0	145	126	43	44.3	--	0.34	--	421	222
SAR = 1.72							2.89	1.56	2.57	--	0.00	2.38	2.62	1.21	0.71	--	--	--	--	421	103
							41	22	36	--	0	34	38	17	10						
125/28E-28P02M 07/01/69	15	5806	7.5	759	7.8			50	17	31	--	0	184	58	37	32.1	--	0.30	--	284	195
SAR = 0.47							2.49	1.40	1.35	--	0.00	3.01	1.21	1.04	0.52	--	--	--	--	316#	44
							48	27	26	--	0	52	21	18	9						
125/28E-29F00M 07/01/69	15	5806	7.5	1028	7.9			63	18	105	--	0	173	253	38	5.8	--	0.48	--	562	230
SAR = 3.00							3.14	1.48	4.57	--	0.00	2.83	5.27	1.07	0.09	--	--	--	--	569	88
							34	16	50	--	0	31	57	12	1						
125/28E-29J01M 07/01/69	15	5806	7.7	896	7.8			62	15	42	--	0	167	93	54	15.7	--	0.31	--	350	218
SAR = 1.24							3.09	1.23	1.83	--	0.00	2.74	1.94	1.52	0.25	--	--	--	--	365	81
							50	20	30	--	0	42	30	24	4						
125/28E-29J00M 07/01/69	15	5806	7.5	1339	7.8			117	25	106	--	0	154	334	101	6.4	--	0.37	--	759	395
SAR = 2.32							5.84	2.05	4.61	--	0.00	2.52	6.95	2.85	1.10	--	--	--	--	766	269
							47	16	37	--	0	20	56	23	1						
125/28E-29J02M 07/01/69	15	5806	7.5	881	7.8			54	20	44	--	0	190	88	47	13.7	--	0.32	--	348	218
SAR = 1.30							2.69	1.64	1.91	--	0.00	3.11	1.83	1.32	0.22	--	--	--	--	361	82
							63	21	31	--	0	48	28	20	3						
125/28E-30M02M 07/01/69	15	5806	7.9	671	8.1			33	8	58	--	0	171	66	23	1.4	--	0.38	--	274	115
SAR = 2.35							1.65	0.66	2.52	--	0.00	2.80	1.37	0.65	0.02	--	--	--	--	274	0
							34	14	52	--	0	58	28	13	0						
125/28E-30M03M 07/01/69	15	5806	7.5	912	7.7			62	20	38	--	0	181	98	49	8.2	--	0.36	--	356	235
SAR = 1.07							3.09	1.64	1.65	--	0.00	2.97	2.04	1.38	0.13	--	--	--	--	365	86
							48	26	26	--	0	45	31	21	2						
125/28E-31M01M 07/01/69	15	5806	7.7	509	8.0			30	8	40	--	0	157	36	21	3.8	--	0.28	--	214	108
SAR = 1.68							1.50	0.66	1.74	--	0.00	2.57	0.75	0.59	0.06	--	--	--	--	217	0
							38	17	45	--	0	65	19	15	1						
125/28E-31P01M 07/01/69	15	5806	7.7	738	7.9			47	14	38	--	0	164	75	33	7.8	--	0.30	--	289	175
SAR = 1.25							2.34	1.15	1.65	--	0.00	2.69	1.56	0.93	0.12	--	--	--	--	296	40
							45	22	32	--	0	51	29	17	2						
08/29/69 SAR = 2.19	15	5806	8.2	1430	8.2			92	22	90	--	7	168	264	53	19.3	--	0.63	--	631	321
							4.59	1.81	3.91	--	0.23	2.75	5.50	1.49	0.31	--	--	--	--	631	171
							44	17	38	--	2	27	53	14	3						
125/28E-34E01M 07/01/69	15	5806	7.5	907	7.8			73	17	29	--	0	172	94	52	61.6	--	0.30	--	351	251
SAR = 0.79							3.64	1.40	1.26	--	0.00	2.82	1.96	1.47	0.99	--	--	--	--	412	110
							58	22	20	--	0	39	27	20	14						
11N/18A-06C015 08/27/69	15	5806	7.2	476	8.1			84	15	32	--	0	178	92	46	43.6	--	0.15	--	402	272
SAR = 0.44							4.19	1.23	1.39	--	0.00	2.92	1.91	1.30	0.70	--	--	--	--	401	272
							61	16	20	--	0	43	28	19	10						
11N/18A-06C015 07/03/69	15	5806	7.7	861	7.7			78	21	8	--	0	190	43	72	5.3	--	0.06	--	318	284
SAR = 0.21							3.89	1.73	0.35	--	0.00	3.11	0.89	2.03	0.08	--	--	--	--	321	128
							65	29	6	--	0	51	15	33	1						
11N/18A-06M05 08/26/69	15	5806	7.0	757	8.2			72	13	35	--	0	229	62	26	21.1	--	0.19	--	344	231
SAR = 1.00							3.56	1.07	1.52	--	0.00	3.75	1.29	0.73	0.34	--	--	--	--	362	43
							58	17	25	--	0	61	21	12	6						
11N/18A-06M05 08/27/69	15	5806	7.0	1040	8.1			93	17	41	--	0	165	100	74	58.6	--	0.16	--	467	302
SAR = 1.13							4.64	1.40	1.78	--	0.00	2.70	2.08	2.04	0.94	--	--	--	--	465	167
							59														

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	COUNTY TIME	LAT SAMPLER	TEMP PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUES				MILLIGRAMS PER LITER				TOS 180C (+105C) SUM	T NO
					CA	Mg	NA	K	CO3	HCO3	SO4	CL	NO3	F	4	SIO2		
11N/18w-07P015 08/26/69 -- SAR = 0.74	15	5806	67	804	77	15	27	--	5	223	44	31	40.4	--	0.19	--	351	254
11N/18w-07P015 08/26/69 -- SAR = 2.75	15	5806	75	699	32	4	62	--	10	187	3	29	23.1	--	0.20	--	256	96
11N/18w-14W015 08/27/69 -- SAR = 0.70	15	5806	70	1010	82	29	29	--	0	331	59	31	9.3	--	0.43	--	454	321
11N/18w-14W015 09/24/69 1620	15	5050	75	800	79	19	31	3.6	0	259	91	25	7.0	--	0.5	--	402	276
11N/18w-18L015 08/26/69 -- SAR = 1.04	15	5606	67	673	63	17	36	--	8	212	52	30	24.6	--	0.22	--	230	226
11N/18w-18L015 08/26/69 -- SAR = 1.21	15	5806	69	804	56	16	40	--	0	205	48	35	31.3	--	0.22	--	328	206
11N/18w-190015 08/26/69 -- SAR = 0.87	15	5806	68	793	66	18	31	--	11	218	50	28	20.4	--	0.47	--	333	239
11N/18w-22K.5 08/26/69 -- SAR = 0.76	15	5806	67	876	75	21	29	--	13	232	51	25	44.7	--	0.23	--	374	273
11N/18w-27E805 08/26/69 -- SAR = 0.93	15	5606	66	1100	98	25	40	--	11	270	97	32	61.1	--	0.23	--	499	348
11N/18w-27G015 08/27/69 -- SAR = 5.81	15	5806	75	605	10	1	72	--	10	122	24	24	11.9	--	1.05	--	213	29
11N/18w-28A015 08/26/69 -- SAR = 0.80	15	5806	67	896	88	25	33	--	0	257	131	26	11.4	--	0.30	--	443	323
11N/19w-03L805 08/11/69 -- SAR = 0.84	15	5806	68	450	38	11	23	--	0	179	23	14	10.7	--	0.14	--	199	140
11N/19w-03P015 08/25/69 -- SAR = 0.83	15	5806	69	618	44	12	24	--	0	189	30	18	2.9	--	0.14	--	222	160
11N/19w-05P805 08/11/69 -- SAR = 2.69	15	5806	74	440	19	5	51	--	0	151	34	15	9.0	--	0.23	--	200	69
11N/19w-05W015 08/25/69 -- SAR = 2.53	15	5806	72	497	18	5	47	--	6	114	40	16	1.2	--	0.16	--	189	66
11N/19w-07R015 08/11/69 -- SAR = 2.07	15	5806	77	500	26	8	47	--	0	167	30	21	11.0	--	0.25	--	215	96
11N/19w-07R015 08/11/69 -- SAR = 2.17	15	5806	79	490	24	8	48	--	0	164	34	18	8.0	--	0.26	--	213	90
11N/19w-07R015 08/11/69 -- SAR = 1.08	15	5806	78	630	42	15	32	--	0	200	26	30	24.5	--	0.30	--	245	165
11N/19w-09P015 08/11/69 -- SAR = 1.14	15	5806	73	540	40	14	33	--	0	190	44	19	14.3	--	0.22	--	246	158
11N/19w-09P805 08/11/69 -- SAR = 0.81	15	5806	73	600	48	15	25	--	0	196	42	23	19.8	--	0.24	--	251	183
11N/19w-11G015 08/11/69 -- SAR = 0.81	15	5806	67	530	57	13	2	--	0	217	32	30	13.1	--	0.17	--	266	197
11N/19w-11G015 08/11/69 -- SAR = 0.40	15	5806	69	540	59	12	13	--	0	212	28	16	18.3	--	0.19	--	234	197
11N/19w-13J015 08/11/69 -- SAR = 0.83	15	5806	70	630	60	12	27	--	0	226	37	22	20.9	--	0.17	--	272	199
11N/19w-13N015 08/25/69 -- SAR = 0.97	15	5806	69	699	62	16	33	--	0	201	94	21	7.7	--	0.23	--	326	221
11N/19w-14W015 08/11/69 -- SAR = 0.92	15	5806	70	620	62	11	30	--	0	236	38	23	15.0	--	0.25	--	282	199

TABLE E-1 (continued)

MINERAL ANALYSES OF GROUND WATER

WELL NO.	DATE	COM. NAME	CITY	THW	FC	MINERAL CONSTITUENTS IN			MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUES				MILLIGRAMS PER LITER			TDS 180C (#105C) SUM	TH NCH		
						Ca	Mg	Na	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02		
11/69	15	5806	72	620	56	12	33	--	0	239	35	20	14.8	--	0.23	--	276	189	
11/69	--	5121	8.0		2.79	0.99	1.43	0.00	3.92	0.73	0.56	0.24					289	0	
R					54	19	27		72	13	10	4							
11/69	15	5806	72	590	56	12	28	--	0	223	41	18	13.1	--	0.21	--	268	190	
11/69	--	5121	7.9		2.79	0.99	1.22	0.00	3.65	0.85	0.51	0.21					278	7	
R					56	20	24		70	16	10	4							
11/69	15	5806	72	570	46	15	29	--	0	212	37	20	14.8	--	0.22	--	254	178	
11/69	--	5121	8.0		2.29	1.23	1.26	0.00	3.47	0.77	0.56	0.24					267	4	
R					48	26	26		69	15	11	5							
11/69	15	5806	77	580	49	12	30	--	0	220	26	21	13.2	--	0.20	--	248	173	
11/69	--	5121	8.1		2.44	0.99	1.30	0.00	3.60	0.54	0.59	0.21					260	0	
R					52	21	27		73	11	12	4							
11/69	15	5806	75	770	60	15	36	--	0	212	66	35	39.5	--	0.26	--	318	213	
11/69	--	5121	7.9		2.99	1.23	1.57	0.00	3.47	1.37	0.99	0.64					356	39	
R					52	21	27		54	21	15	10							
11/69	15	5806	75	600	44	13	40	--	0	138	24	23	14.1	--	0.27	--	263	165	
11/69	--	5121	8.0		2.19	1.07	1.74	0.00	3.90	0.50	0.65	0.23					276	0	
R					44	21	35		74	9	12	4							
11/69	15	5806	74	1500	92	32	89	--	0	213	284	44	27.4	--	0.60	--	675	362	
11/69	--	5121	8.0		4.59	2.63	3.87	0.00	3.49	5.91	1.24	0.44					674	187	
R					41	24	35		31	53	11								
11/69	15	5806	75	1290	72	26	83	--	5	196	229	35	10.3	--	0.61	--	558	285	
11/69	--	5121	8.3		3.59	2.14	3.61	0.17	3.21	4.77	0.99	0.17					558	116	
R					38	23	39		34	51	11	2							
11/69	15	5806	74	1760	107	36	130	--	0	225	417	44	21.9	--	0.95	--	868	416	
11/69	--	5121	8.1		5.34	2.96	5.65	0.00	3.69	8.68	1.24	0.35					868	231	
R					38	21	40		26	62	9	2							
11/69	15	5806	72	620	53	14	33	--	0	238	39	20	13.8	--	0.24	--	278	191	
11/69	--	5121	7.9		2.64	1.15	1.43	0.00	3.90	0.81	0.56	0.22					291	0	
R					50	22	27		71	15	10	4							
11/69	15	5806	76	1070	50	19	80	--	0	239	120	38		--	0.63	--	425	201	
11/69	--	5121	8.2		2.49	1.56	3.48	0.00	3.92	2.50	1.07						425	5	
R																			
11/69	15	5806	73	700	63	20	25	--	0	238	57	78	13.4	--	0.29	--	311	240	
11/69	--	5121	8.0		3.14	1.64	1.09	0.00	3.90	1.19	0.79	0.22					324	45	
R					53	28	18		64	19	13	3							
11/69	15	5806	73	890	79	21	45	--	0	253	100	51	15.6	--	0.32	--	422	285	
11/69	--	5121	8.1		3.94	1.73	1.96	0.00	4.15	2.08	1.44	0.25					437	77	
R					52	23	26		52	26	18	3							
11/69	15	5806	72	860	78	24	41	--	0	225	114	50	10.3	--	0.32	--	430	294	
11/69	--	5121	8.1		3.89	1.97	1.78	0.00	3.69	2.37	1.41	0.17					429	109	
R					51	26	23		48	31	18	2							
11/69	15	5806	73	580	50	12	37	--	0	229	38	18	12.4	--	0.22	--	270	174	
11/69	--	5121	8.0		2.49	0.99	1.61	0.00	3.75	0.79	0.51	0.20					281	0	
R					49	19	32		71	15	10	4							
11/69	15	5806	70	650	60	11	37	--	0	231	45	27	13.6	--	0.22	--	295	193	
11/69	--	5121	8.0		2.99	0.90	1.61	0.00	3.79	0.94	0.76	0.22					308	3	
R					54	16	29		66	16	13	4							
11/69	15	5806	70	785	84	21	36	--	8	215	61	72	21.7	--	0.28	--	411	295	
11/69	--	5121	8.2		4.19	1.73	1.57	0.27	3.52	1.27	2.03	0.35					410	105	
R					56	23	21		4	47	17	5							
11/69	15	5806	70	610	58	11	36	--	0	245	35	22	12.2	--	0.09	--	285	191	
11/69	--	5121	7.9		2.89	0.90	1.57	0.00	4.01	0.73	0.62	0.20					295	0	
R					54	17	29		72	13	11	3							
11/69	15	5806	73	914	72	20	36	--	0	251	61	38	23.1	--	0.67	--	425	262	
11/69	--	5121	8.1		3.59	1.64	1.57	0.00	4.11	1.27	1.07	0.37					375	56	
R					53	24	23		60	19	16	5							
11/69	15	5806	69	781	61	17	30	--	11	245	28	24	5.9	--	0.26	--	299	221	
11/69	--	5121	8.4		3.04	1.40	1.30	0.37	4.01	0.58	0.68	0.09					298	2	
R					53	24	23		6	70	10	12	2						
9/24/69	15	5050	70	550	60		.38	--	0	272		21	4.6	--	0.3	--		237	
9/24/69	1650	5050	8.3				1.6	0.00	4.46		0.59	0.07							
8/26/69	15	5806	70	932	64	15	47	--	8	198	20	80	6.9	--	0.16	--	337	214	
8/26/69	--	5121	8.4		3.04	1.23	2.04	0.27	3.24	0.42	2.25	0.11					336	38	
R					48	19	32		4	51	7	36	2						
8/26/69	15	5806	70	712	56	15	31	--	10	238	24	21	2.8	--	0.27	--	275	200	
8/26/69	--	5121	8.3		2.79	1.23	1.35	0.33	3.90	0.50	0.59	0.04					278	0	
R					56	23	25		6	73	9	11	1						
8/26/69	15	5806	72	751	47	15	39	--	19	230	8	22	6.1	--	0.29	--	271	179	
8/26/69	--	5121	8.4		2.34	1.23	1.70	0.63	3.77	0.17	0.62	0.10					270	0	
R					44	23	32		12	71	3	12	2						
8/26/69	15	5806	74	1110	86	26	56	--	0	234	177	34	24.7	--	0.28	--	520	322	
8/26/69	--	5121	8.0		4.29	2.14	2.44	0.00	3.83	3.68	0.96	0.40					519	130	
R					48	24	27		43	41	11	4							

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE	FEDL NO.	COUNTY	LAM	TEMP	FC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS	
DATE	WELL NO.		SAMP-LETH	PH		CA	MG	NA	CL	CO3	HCO3	S04	CL	NO3	F	SI	CL	SUM	(+10%CL)
TIME																			
11N/19W-296015	15	5806	74	1360		87	26	89	--	7	232	247	35	11.2	--	0.73	--	618	3
08/26/69 --		5121	8.2			4.34	2.14	3.87		0.23	3.40	5.14	0.99	0.18				617	1
SAR = 2.15						42	21	37		2	37	50	9	7					
11N/19W-300015	15	580A	74	1920		150	50	150	--	5	182	634	46	30.0	--	0.62	--	1156	51
08/27/69 --		5121	8.2			7.46	4.11	6.52		0.17	2.98	13.20	1.30	0.48				1156	4
SAR = 2.71						41	23	36		1	16	73	7	3					
11N/19W-30E015	15	5806	77	2000		181	48	141	--	0	136	712	68	40.6	--	0.55	--	1239	64
08/29/69 --		5121	6.1			4.03	3.95	6.13		0.00	2.23	14.62	1.35	0.65				1238	53
SAR = 2.41						47	21	32			12	78	7	3					
11N/19W-80F015	15	5806	72	590		50	14	37	--	0	244	32	22	12.4	--	0.21	--	278	16
08/12/69 --		5121	8.0			2.49	1.15	1.61		0.00	4.00	0.67	0.62	0.20				288	
SAR = 1.19						47	22	31			73	12	11	4					
11N/19W-80P015	15	5806	74	1600		96	34	131	--	0	255	375	40	9.9	--	0.88	--	814	38
08/25/69 --		5121	8.0			4.76	2.80	5.70		0.00	4.18	7.81	1.13	0.16				813	17
SAR = 2.92						36	21	43			31	59	8	1					
11N/20W-05J025	15	5806	73	1160		78	24	90	--	0	143	290	35	4.0	--	0.53	--	593	27
08/29/69 --		5121	8.1			3.89	1.97	3.91		0.00	2.34	6.04	0.99	0.06				592	16
SAR = 2.29						40	20	40			25	64	10	1					
11N/20W-05L015	15	5806	73	1220		89	25	88	--	0	158	329	35	2.7	--	0.76	--	645	33
08/29/69 --		5121	8.2			4.44	2.05	3.63		0.00	2.59	6.85	0.99	0.04				648	20
SAR = 2.12						43	20	37			25	65	9	0					
11N/20W-09C015	15	5806	73	1720		132	37	123	--	0	149	535	44	10.7	--	0.60	--	956	48
08/29/69 --		5121	8.1			6.59	3.04	5.35		0.00	2.44	11.14	1.24	0.17				956	36
SAR = 2.44						44	20	36			16	74	8	1					
11N/20W-10H015	15	5806	73	1310		73	22	93	--	0	199	248	34	6.3	--	0.78	--	575	27
08/29/69 --		5121	8.3			3.64	1.81	4.04		0.00	3.26	5.16	0.96	0.10				575	10
SAR = 2.45						38	19	43			34	54	10	1					
11N/20W-13L805	15	5806	73	1250		67	23	83	--	0	166	248	33	3.9	--	0.59	--	536	26
08/29/69 --		5121	8.1			3.34	1.89	3.61		0.00	2.72	5.16	0.93	0.06				541	124
SAR = 2.23						38	21	41			31	58	10	1					
11N/20W-130015	15	5806	73	1500		77	29	122	--	2	209	332	37	5.1	--	0.88	--	708	312
08/29/69 --		5121	8.4			3.84	2.38	5.31		0.07	3.42	6.91	1.04	0.08				708	137
SAR = 3.01						33	21	46			1	30	60	9	1				
11N/20W-14H015	15	5806	73	1550		88	33	125	--	0	227	357	40	12.5	--	1.06	--	768	353
08/29/69 --		5121	8.2			4.39	2.71	5.44		0.00	3.72	7.43	1.13	0.20				769	167
SAR = 2.88						35	22	43			30	59	9	2					
11N/20W-15H805	15	5806	74	910		46	14	68	--	0	150	154	27	3.1	--	0.33	--	383	173
08/29/69 --		5121	6.1			2.29	1.15	2.96		0.00	2.46	3.21	0.76	0.05				387	50
SAR = 2.25						36	18	46			38	49	12	1					
11N/20W-16H015	15	5806	79	1840		153	33	137	--	0	165	575	57	12.1	--	0.70	--	1037	517
08/14/69 --		5121	8.2			7.63	2.71	5.96		0.00	2.70	11.97	1.61	0.19				1049	382
SAR = 2.62						47	17	36			16	73	10	1					
11N/20W-17H015	15	5806	79	1730		164	32	64	--	0	111	500	55	21.1	--	0.42	--	875	539
08/14/69 --		5121	7.9			8.18	2.63	2.78		0.00	1.82	10.41	1.55	0.34				892	448
SAR = 1.20						60	19	20			13	74	11	2					
11N/20W-24A015	15	5806	73	1740		105	36	136	--	0	246	414	40	17.0	--	0.95	--	871	409
08/29/69 --		5121	8.0			5.24	2.96	5.92		0.00	4.03	8.62	1.13	0.27				870	207
SAR = 2.92						37	21	42			29	61	8	2					
11N/20W-25K015	15	5050	82	2100		221	217	9.44	--	0	105	60	62	6.0	--	0.1	--		846
09/25/69 0915		5050	8.1							0.00	.72	1.69	1.00						
11N/20W-34J015	15	5806	75	4520		288	87	375	--	0	154	1545	94	25.8	--	1.00	--	2468	1078
08/29/69 --		5121	8.0			14.37	7.15	16.31		0.00	2.61	32.17	2.65	0.42				2494	948
SAR = 4.97						38	19	43			7	65	7	1					
11N/21W-09D805	15	5806	86	1100		41	6	120	--	0	124	220	40	--	--	0.97	--	489	127
08/14/69 --		5121	8.1			2.04	0.49	5.22		0.00	2.03	4.58	1.13					477	25
11N/21W-11G015	15	5806	81	920		31	19	104	--	0	126	240	21	36.7	--	0.55	--	477	157
08/14/69 --		5121	8.0			1.55	1.56	4.52		0.00	2.06	5.00	0.59	0.59				515	54
SAR = 3.63						20	20	59			25	61	7	7					
11N/21W-110015	15	5806	--	2170		200	35	96	--	0	103	690	35	2.7	--	0.49	--	1107	645
09/03/69 --		5121	7.9			9.98	2.88	4.18		0.00	1.69	14.36	0.99	0.04				1110	560
SAR = 1.65						59	17	24			10	84	6	0					
11N/22W-03F015	15	5806	77	1930		130	44	102	--	0	143	542	30	3.7	--	0.68	--	920	504
09/03/69 --		5121	7.8			6.49	3.62	4.44		0.00	2.34	11.29	0.85	0.06				923	387
SAR = 1.97						45	25	30			16	78	8						
11N/22W-04F015	15	5050	82	1375		124	122	5.31	--	0	137	28	1.8	--	0.6	--			517
09/25/69 1100		5050	8.1							0.00	2.24	0.79	0.03						
11N/22W-04F015	15	580A	77	2190		158	57	140	--	0	111	740	42	13.9	--	0.66	--	1206	628
09/03/69 --		5121	7.9			7.88	4.69	6.09		0.00	1.82	15.41	1.16	0.22				1207	537
SAR = 2.43						42	25	33			10	83	6						
11N/23W-12P015	15	5050	78	3000		337	136	255	8.0	0	173	1480	216	0.0	--	1.3	--	2750	1400
09/25/69 1145		5050	7.9					11.09	0.20	0.00	2.84	30.83	6.09	0.00					1260

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

WELL ID	WELL TYPE	DATE	COUNTY	LAT. SECTION	TEMP. DEG.	DEPTH FEET	MINERAL CONSTITUENTS				MILLIGRAMS PER LITER					TDS 180C (*105C) SUM	TH NCH			
							CA	MG	NA	CL	CO3	HCO3	SO4	CL	NO3			F	B	SIU2
18-310015		1/27/69	15	5806 5121	7.2 4.2	618	57	13	25	--	0	195	40	21	21.1	--	0.16	--	274	194
							2.24	1.07	1.09		0.00	3.20	0.83	0.59	0.34				274	34
							57	21	22		0	64	17	12	7					
18-310025		1/27/69	15	5806 5121	7.1 8.3	793	64	16	33	--	6	178	38	41	49.4	--	0.16	--	336	224
							3.19	1.31	1.43		0.20	2.92	0.79	1.16	0.80				336	68
							54	22	24		3	50	13	20	14					
19-250015		1/25/69	15	5806 5121	6.9 4.2	615	66	16	33	--	7	171	45	43	53.5	--	0.14	--	348	231
							3.29	1.31	1.43		0.23	2.80	0.94	1.21	0.86				348	79
							54	22	24		4	46	15	20	14					
19-320025		1/27/69	15	5806 5121	7.8 7.8	509	38	14	30	--	0	195	29	19	6.6	--	0.25	--	228	151
							1.96	1.15	1.30		0.00	3.20	0.60	0.53	0.11				233	0
							44	26	30		0	72	14	12	2					
19-330015		1/27/69	15	5806 5121	7.3 4.0	404	22	8	37	--	0	159	18	14	0.4	--	0.14	--	178	89
							1.10	0.46	1.61		0.00	2.61	0.37	0.39	0.01				178	0
							33	14	48		0	77	11	12	0					
19-330015		1/27/69	15	5806 5121	7.3 4.0	439	33	13	23	--	0	176	20	14	5.8	--	0.14	--	191	136
							1.65	1.07	1		0.00	2.88	0.42	0.39	0.09				196	0
							44	29	27		0	76	11	10	2					
19-354015		1/25/69	15	5806 5121	7.1 4.3	524	48	11	20	--	7	172	17	16	14.9	--	0.14	--	219	163
							2.34	0.90	0.87		0.23	2.82	0.35	0.45	0.24				219	10
							57	22	21		6	69	9	11	6					
19-350015		1/11/69	15	5806 5121	6.7 7.4	450	54	8	14	--	0	179	28	14	15.3	--	0.13	--	206	165
							2.69	0.66	0.61		0.00	2.93	0.58	0.39	0.25				222	18
							68	17	15		0	70	14	9	6					
19-350005		1/11/69	15	5806 5121	6.7 7.8	490	50	11	13	--	0	195	16	14	17.9	--	0.16	--	202	168
							2.49	0.90	0.56		0.00	3.20	0.33	0.39	0.29				218	8
							63	23	14		0	76	8	9	7					
20-310015		1/30/69	15	5806 5121	7.3 7.8	1018	84	19	77	--	0	126	299	31	2.4	--	0.26	--	573	290
							4.19	1.56	3.35		0.00	2.06	6.22	0.87	0.04				575	187
							46	17	37		0	22	68	9	0					
20-320015		1/01/69	15	5806 5121	7.7 7.8	981	73	23	77	--	0	176	240	34	2.4	--	0.43	--	534	275
							3.64	1.89	3.35		0.00	2.88	5.00	0.96	0.04				537	131
							41	21	38		0	32	56	11	0					
20-360015		1/27/69	15	5806 5121	7.5 7.8	500	36	12	27	--	0	183	25	17	6.4	--	0.20	--	269	141
							1.80	0.99	1.17		0.00	3.00	0.52	0.48	0.10				214	0
							45	25	30		0	73	13	12	2					

TABLE E-2

This table presents trace mineral analyses performed by the U. S. Geological Survey and Department of Water Resources Laboratories. The following are definitions of chemical symbols used in this table:

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	LI	Lithium
BE	Beryllium	MN	Manganese
BI	Bismuth	MO	Molybdenum
BR	Bromine	NI	Nickel
CD	Cadmium	PB	Lead
CO	Cobalt	SR	Strontium
CR	Chromium	TI	Titanium
CU	Copper	V	Vanadium
FE	Iron	ZN	Zinc
GA	Gallium		

Abbreviations

LAB	Laboratory	U	Micrograms per liter
5005	U.S. Geological Survey	Y	Less than the amount indicated
5050	Department of Water Resources		
M	Milligrams per liter		

TABLE E-2
TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL LI	AS HS	BE HO	BI HI	BR PI	CD TI	CO V	CR TK	CU SR	FE	GA	GE
085/22E-08L11 M	11-27-69	5050	--	0.00M	--	--	--	--	--	--	--	--	--	--
243/24E-04P02 M	10-28-68	5050	--	0.57M	--	--	--	--	--	--	--	--	--	--
243/24E-05Q02 M	10-28-68	5050	--	0.16M	--	--	--	--	--	--	--	--	--	--
243/24E-05Q32 M	10-28-68	5050	--	0.01M	--	--	--	--	--	--	--	--	--	--
243/24E-04Q32 M	03-04-69	5050	--	0.16M	--	--	--	--	--	--	--	--	--	--
243/24E-05Q32 M	03-04-69	5050	--	0.01M	--	--	--	--	--	--	--	--	--	--
243/24E-05Q02 M	03-04-69	5000	53U	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	29U	13UY	0.7UY
253/27E-08W11 M	07-21-69	5053	--	0.00M	--	--	--	--	--	--	--	--	--	--
273/26E-28A01 M	08-27-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	15U	13UY
273/26E-30C80 M	08-27-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	10U	13UY
283/26E-11L80 M	08-27-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	4.0U	13UY
283/26E-13L01 M	08-27-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	14TU	13UY
283/27E-06F01 M	08-27-69	5000	10U	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	11U	13UY
283/27E-18J80 M	08-27-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	26TU	13UY
283/27E-29L80 M	08-27-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	--	53U	13UY



OR AREA BOUNDARIES
 INDICATE CODE CLASSIFICATION
 LINE
 LINE
 VIA AQUEDUCT AND TURNOUTS
 MEASURED MONTHLY
 MEASURED ANNUALLY
 MEASURED ANNUALLY

LEGEND



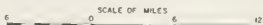
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969



DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969



STATE OF CALIFORNIA
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 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1969
 GROUND WATER LEVEL CHANGES
 UNCONFINED AND SEMICONFINED AQUIFERS
 AND
 SELECTED OBSERVATION WELLS





LEGEND

— DISTRICT OR AREA BOUNDARIES

8-22 89 NUMBERS INDICATE CODE CLASSIFICATION

FOOTHILL LINE

— GEODETIC LINE

— CALIFORNIA AQUEDUCT AND TURNOUTS

WELLS MEASURED ANNUALLY

WELLS MEASURED ANNUALLY AND SEMI-ANNUALLY

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +30 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -30 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969

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HYDROLOGIC DATA 1969

GROUND WATER LEVEL CHANGES
 UNCONFINED AND SEMICONFINED AQUIFERS
 SELECTED OBSERVATION WELLS

JULY 1971



LEGEND

AREA BOUNDARIES

STATE CODE CLASSIFICATION

IR

IE

CONDUIT AND TURNOUTS

OPERATIVE GROUND WATER
PUMPING PROGRAMS

OIL CONSERVATION DISTRICT

CONSERVATION DISTRICT

IRRIGATION WATER DISTRICT



DISTRICTS OR AREAS WITH A GROUND WATER
LEVEL CHANGE OF +5.0 FEET OR MORE IN
THE CONFINED AND SEMICONFINED AQUIFERS
FROM SPRING 1968 TO SPRING 1969



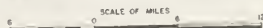
DISTRICTS OR AREAS WITH A GROUND WATER
LEVEL CHANGE OF -5.0 FEET OR MORE IN
THE CONFINED AND SEMICONFINED AQUIFERS
FROM SPRING 1968 TO SPRING 1969



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GROUND WATER LEVEL CHANGES
IN
CONFINED AND SEMICONFINED AQUIFERS
AND
COOPERATIVE PROGRAM AREAS





- LEGEND**
- DISTRICT OR AREA BOUNDARIES
 - 9-22 00 NUMBERS INDICATE CODE CLASSIFICATION
 - - - POTHOLE LINE
 - - - RECORD LINE
 - - - CALIFORNIA ROULETTE AND TURNOUTS
 - ▨ AREAS OF COOPERATIVE GROUND WATER LEVEL MONITORING PROGRAMS
 - ▨ LOS BANOS SOIL CONSERVATION DISTRICT
 - ▨ POBO SOIL CONSERVATION DISTRICT
 - ▨ KINGS COUNTY WATER DISTRICT
 - ▨ SERRA COUNTY
 - DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969
 - DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969

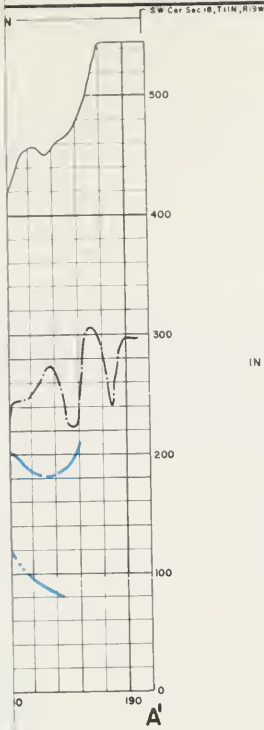
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GROUND WATER LEVEL CHANGES
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 COOPERATIVE PROGRAM AREAS

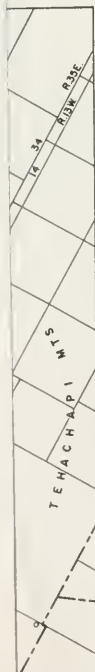
MAY 1971





HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

- 1 MADERA
- 2 FRESNO
- 3 CONSOLIDATED
- 4 CENTERVILLE BOTTOMS
- 5 ALTA
- 6 IVAMHOE
- 7 OUTSIDE IVANHOE
- 8 MILL CREEK
- 9 TULARE
- 10 ELK BAYOU
- 11 LINDSAY-EXETER
- 12 TULE RIVER
- 13 LOWER DEER CREEK
- 14 MIDDLE DEER CREEK
- 15 DELANO-EARLIMART
- 16 Mc FARLAND-SHAFTER
- 17 ROSEDALE
- 18 ARVIN-EDISON



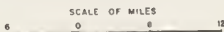
LEGEND

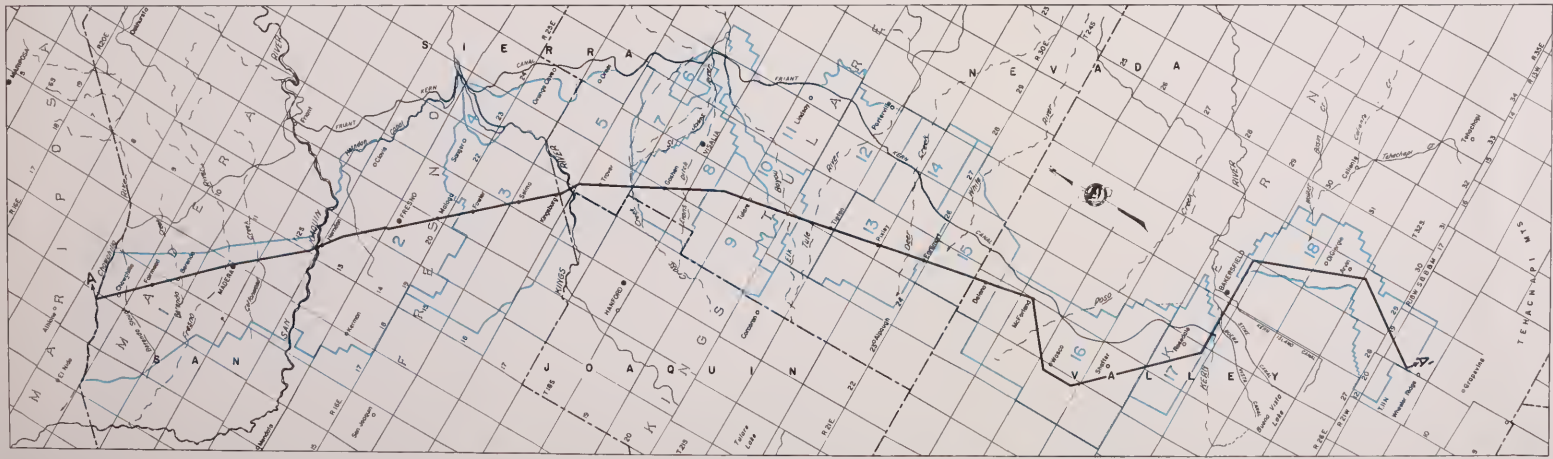
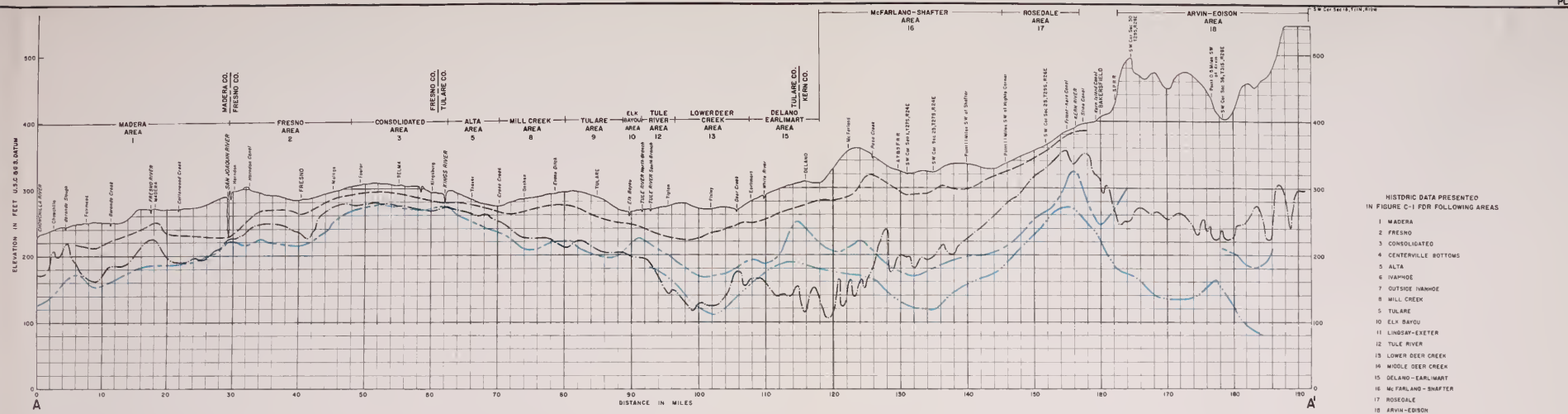
- GROUND WATER AREA BOUNDARIES
- GROUND WATER LEVEL FALL 1921
- GROUND WATER LEVEL FALL 1951
- GROUND WATER LEVEL SPRING 1969, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1969, PRESSURE SURFACE
- GROUND WATER LEVEL PROFILE SECTION

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HYDROLOGIC DATA 1969

MAP OF SELECTED GROUND WATER AREAS
IN THE SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1969





- HISTORIC DATA PRESENTED IN FIGURE C-1 FOR FOLLOWING AREAS
- 1 MADERA
 - 2 FRESNO
 - 3 CONSOLIDATED
 - 4 CENTERVILLE BOTTOMS
 - 5 ALTA
 - 6 HANFORD
 - 7 OUTSIDE HANFORD
 - 8 MILL CREEK
 - 9 TULARE
 - 10 ELK BAYOU
 - 11 LINDSAY-EXETER
 - 12 TULE RIVER
 - 13 LOWER DEER CREEK
 - 14 MIDDLE DEER CREEK
 - 15 DELANO-EARLHART
 - 16 MCFARLAND-SHAFTER
 - 17 ROSEDALE
 - 18 ARVIN-EDISON

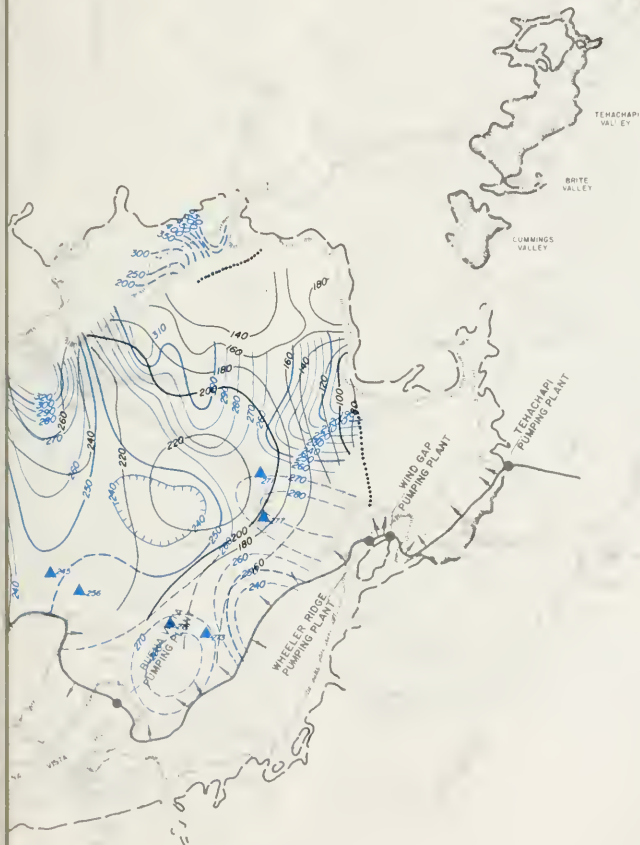
- LEGEND
- GROUND WATER AREA BOUNDARIES
 - GROUND WATER LEVEL FALL 1921
 - GROUND WATER LEVEL FALL 1951
 - GROUND WATER LEVEL SPRING 1969 UNCONFINED AQUIFER
 - GROUND WATER LEVEL SPRING 1969 PRESSURE SURFACE
 - GROUND WATER LEVEL PROFILE SECTION

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MAP OF SELECTED GROUND WATER AREAS
 IN THE SAN JOAQUIN VALLEY
 AND
 PROFILES ALONG SECTION A-A' SHOWING
 GROUND WATER LEVELS IN 1921, 1951 & 1969

SCALE OF MILES



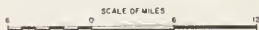


- EXPLANATION**
- UNCONFINED WATER-TABLE CONTOUR
Lines of equal elevation of water in unconfined and semi-confined aquifers, dashed where inferred, contour interval 10, 20, & 50 Feet
 - PRESSURE-SURFACE CONTOUR
Lines of equal elevation of pressure surface in aquifers that are confined or semi-confined, dashed where inferred, contour interval 20 feet
 - Ground water barrier
 - Footwall line
 - Bedrock line
 - California aqueduct and turnouts
 - Due to insufficient data, only ground water elevations of these wells are shown

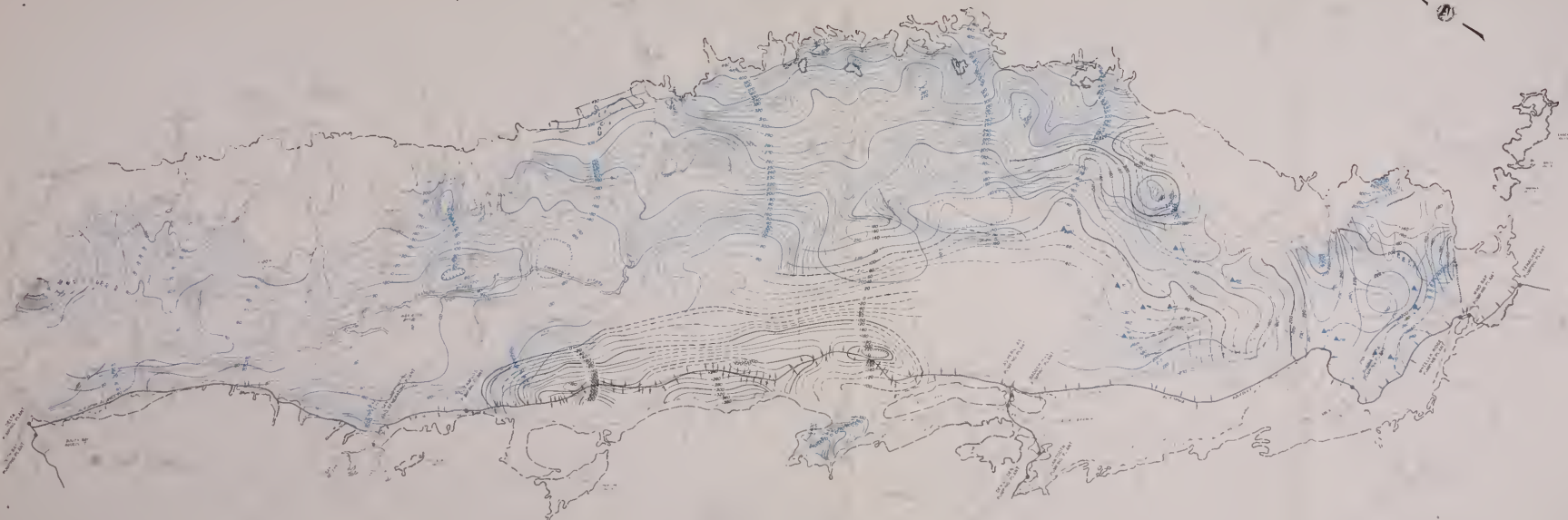
Note: Water level measurements south of township 13 and west of the trough of the valley were made in December 1968

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 HYDROLOGIC DATA 1969

**LINE OF EQUAL ELEVATION
 OF WATER IN WELLS
 SAN JOAQUIN VALLEY
 SPRING 1969**







- EXPLANATION**
- 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'
 - 200' - 1000' - 2000' - 3000' - 4000' - 5000' - 6000' - 7000' - 8000' - 9000' - 10000'

NOTE: ELEVATION DATA FROM 1958 TO 1963

STATE OF CALIFORNIA
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 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1963
**LINES OF EQUAL ELEVATION
 OF WATER IN WELLS**
 SAN JOAQUIN VALLEY
 SPRING 1963

SCALE 1:50,000



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